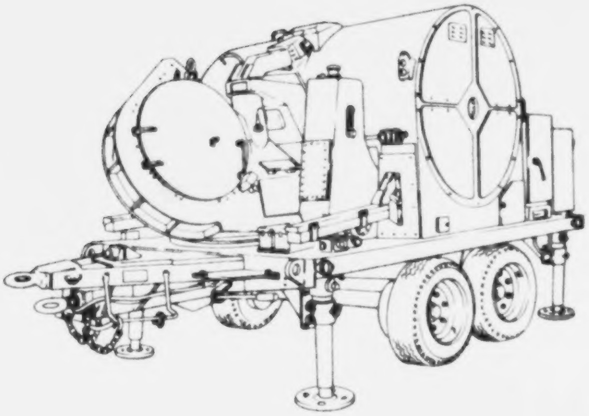
9-1095-205-34-4

TM 9-1095-205-34-4

TECHNICAL MANUAL

MAINTENANCE INSTRUCTIONS DIRECT SUPPORT/GENERAL SUPPORT MAINTENANCE



OPERATOR CONTROL BOX
(DIRECT SUPPORT)
Page 10-1

ELECTRICAL ENCLOSURE
ASSEMBLY (DIRECT SUPPORT)
Page 11-1

MAIN CONTROL PANEL
(DIRECT SUPPORT)
Page 12-1

M128 GROUND VEHICLE MINE DISPENSER (1095-00-397-3456)

HEADQUARTERS, DEPARTMENT OF THE ARMY

September 1984

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READEX FICHE best copy available

WARNINGS AND FIRST AID DATA

WARNING

CARBON MONOXIDE (EXHAUST GAS) CAN KILL YOU

Carbon monoxide is colorless and odorless, but it can kill you. Breathing carbon monoxide causes headache, dizziness, loss of muscular control, a sleepy feeling, and coma. Heavy exposure can cause brain damage or death. Exhaust fumes of fuel burning heaters and internal combustion engines contain carbon monoxide. Carbon monoxide becomes dangerously concentrated when there is no air movement. Always follow safety precautions when the engine coolant heater or dispenser diesel engine is operated for any purpose.

1. DO NOT operate coolant heater or diesel engine in a closed place unless the place has a lot of moving air.
2. DO NOT idle diesel engine for long periods without ventilation.
3. BE ALERT at all times for exhaust odors and exposure symptoms. If either is present, IMMEDIATELY remove affected crew to fresh air. Keep them warm. DO NOT PERMIT PHYSICAL EXERCISE. If necessary, give them artificial respiration.

   FOR ARTIFICIAL RESPIRATION, REFER TO FM 21-11.
4. BE AWARE: the chemical, biological, and radiological (CBR) protective mask WILL NOT protect you from carbon monoxide.

THE BEST DEFENSE AGAINST CARBON MONOXIDE POISONING IS GOOD VENTILATION.

WARNING

Cleaning solvent can explode and can burn. Keep it away from heat or open flame. NO SMOKING. Solvent fumes can make you sick. USE IN A WELL VENTILATED AREA. Keep solvent off your skin as much as you can.

WARNING

Asbestos dust can be harmful to your health. Clean brake assembly parts in ventilated area.

WARNING

Fuel can catch fire and burn you. NO SMOKING. Wipe up spilled fuel. Remove battery ground cable before working on fuel system.

WARNING

You will be injured if dispenser falls on you. Use hydraulic jack to support dispenser during and after removal of leveling jack. Remove and install only one leveling jack at a time.

GO TO NEXT PAGE

WARNINGS AND FIRST AID DATA — Continued

WARNING

You could be hurt if heavy dispenser parts fall on you. Use helper when you remove or install heavy dispenser parts.

WARNING

Flying bits of metal could blind you. Always wear goggles when you cut metal or use power tools.

WARNING

Dirt and dispenser fluids may hurt your eyes. Wear goggles when working under the chassis.

WARNING

Compressed air can hurt you. Never aim air at soldiers or use more pressure than 30 psi (207 kPa). Always wear goggles.

WARNING

Fuel can catch fire and burn you. NO SMOKING. Wipe up spilled fuel.

WARNING

Hydraulic system pressure could reach 3400 psi (23,450 kPa) during startup. A high pressure fluid jet can hurt you. Wear goggles when you check for leaks.

WARNING

Gas that flows into accumulator during precharging is under high pressure. A high pressure gas jet can hurt you. Make sure gas chuck and nitrogen supply connections are tight.

WARNING

Emergency valve drain plug is under pressure and can fly off and hurt you. Open air tank drain valve before you remove emergency valve drain plug.

WARNING

Hot coolant can burn you. Do not get hot coolant on skin. Turn radiator cap slowly to let out pressure.

WARNING

Coolant heater exhaust gases and exhaust tube can burn you. Keep your hands at a safe distance from coolant heater exhaust tube while coolant heater is running.

WARNING

Running the engine and operating the dispenser causes many parts to heat up. DON'T TOUCH any of the following parts when they are hot from use.

- Coolant Hoses
- Exhaust Pipe
- Oil Filters
- Hydraulic Pumps
- Radiator
- Engine Parts

WARNING

Extremely cold and hot parts can injure you. Use gloves when handling extremely cold and hot parts.

WARNING

Launcher guides have sharp edges that can hurt you. Wear gloves when handling launcher guides.

WARNING

Holes in rocker arm shaft have sharp edges that can hurt you. Be careful when you handle rocker arm shaft.

WARNING

Engine parts could hurt you. Stay clear of moving parts when engine is running.

WARNING

Parts rotating at high speeds can harm you. Keep objects away from parts rotating at high speeds.

WARNING

Reel can hurt you when it rotates. Hold reel when removing or installing master link.

WARNING

Launcher can harm you when it oscillates. Make sure manual bypass valve is at OPEN before you move launcher by hand.

WARNING

Air chamber assembly cover is spring loaded and could fly off and hurt you. Hold chamber assembly together during cover removal.

WARNING

Keep away from hanging loads and overhead equipment. Keep hands out of engine compartment when power unit is being removed or installed.

GO TO NEXT PAGE

WARNINGS AND FIRST AID DATA — Continued

WARNING

Spring loaded radiator vanes can hurt you. Do not let vanes snap shut on your fingers.

WARNING

Hydrogen gas from batteries can explode and hurt you. Do not allow sparks near batteries. Battery acid can burn or blind you. Do not get acid on your skin or eyes.

WARNING

Battery posts and cables touched by metal objects can short circuit and burn you. Do not wear jewelry, including watches, or let ID tags hang down, when working on the electrical system. Keep tools away from posts, wires, and terminals.

WARNING

A short circuit can cause welding heat. Make sure MASTER POWER switch is in down (OFF) position when you repair electrical circuits or parts.

WARNING

Axle assembly and wheels are heavy. They can fall and hurt you when springs come out of spring shackles. Do not get under wheels and axle unless they are properly supported.

WARNING

Launcher can hurt you when it oscillates or if it throws tools or parts during oscillation. When engine is running, stay clear of launcher deck, and keep tools and parts off launcher deck.

WARNING

Current of 50 — 70 amp can cause severe burns or other injury. Make sure all connections are tight. Keep tools clear of armature during test. Do not wear jewelry or watch. Wear goggles.

WARNING

Capacitor can discharge and injure you. Discharge capacitor before working on circuit.

WARNING

You can be hurt or killed if practice mines strike you after they have been launched. Do not stand closer than 70 yd (68.5 m) behind mine dispenser that is dispensing practice mines.

INSERT LATEST CHANGED PAGES.
DESTROY SUPERSEDED PAGES.

LIST OF EFFECTIVE PAGES

NOTE

The portion of the text affected by the changes is indicated by a vertical line in the outer margins of the page. Changes to illustrations are indicated by miniature pointing hands.

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 387
CONSISTING OF THE FOLLOWING:

PAGE NO.	*CHANGE NO.
Cover	0
a thru d	0
A	0
B blank	0
i	0
ii blank	0
10-1	0
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10-3 thru 10-65	0
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11-111 thru 11-177	0
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* Zero in this column indicates an original page.

TECHNICAL MANUAL

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 1 September 1984

DIRECT SUPPORT/GENERAL SUPPORT MAINTENANCE MANUAL

M128 GROUND VEHICLE MINE DISPENSER

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander; U.S. Army Armament, Munitions and Chemical Command; ATTN: DRSMC-MAS (R); Rock Island, IL 61299. A reply will be furnished to you.

VOLUME 4

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CHAPTER 10

OPERATOR CONTROL BOX (DIRECT SUPPORT)

Section I. REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

10-1 COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

10-2 SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

No special tools are authorized for the M128 Ground Vehicle Mine Dispenser.

10-3 REPAIR PARTS

Repair parts are listed and illustrated in the repair parts and special tools list TM 9-1095-205-34P, covering direct support and general support maintenance for this equipment.

Section II. MAINTENANCE PROCEDURES

10-4 OPERATOR CONTROL BOX

DESCRIPTION

This task covers:
A. OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET REMOVAL (p 10-4)
B. OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET INSTALLATION (p 10-5)
C. OPERATOR CONTROL BOX DISASSEMBLY (p 10-6)
D. OPERATOR CONTROL BOX REASSEMBLY (p 10-8)
E. DIODE BOARD CIRCUIT CARD ASSEMBLY REMOVAL (p 10-12)
F. DIODE BOARD CIRCUIT CARD ASSEMBLY INSTALLATION (p 10-13)
G. BACK UP BLOCK REMOVAL (p 10-14)
H. BACK UP BLOCK INSTALLATION (p 10-15)
I. OPERATOR CONTROL BOX LEG PADS REMOVAL (p 10-16)
J. OPERATOR CONTROL BOX LEG PADS INSTALLATION (p 10-16)

INITIAL SETUP

Tools and Special Tools:
General mechanic's tool kit
 5180-00-177-7033:
  No. 2 cross tip screwdriver
  Diagonal cutting pliers
  5/16 inch open end wrench
  Putty knife
  Slip joint pliers
3/16 inch handled socket wrench 5120-00-224-2599
No. 2 offset cross tip screwdriver
 5120-00-234-8913
15 inch adjustable wrench 5120-00-264-3793
Goggles 4240-00-269-7912

Equipment Condition:
Operator control box on workbench

Materials/Parts:
Lock washer (2) 5310-00-579-5554
Lock washer (6) 5310-00-616-3555
Preformed packing 5330-00-252-6055
Safety wire, Item 23, Appendix B
Adhesive cement, Item 1, Appendix B
Sealing compound, Item 25, Appendix B
Solvent, Item 28, Appendix B
Rags, Item 22, Appendix B

Personnel Required:
Electrical repairer

Reference:
OPERATOR'S CONTROL PANEL ASSEMBLY, Page 10-17

GO TO NEXT PAGE

10-4 OPERATOR CONTROL BOX — Continued

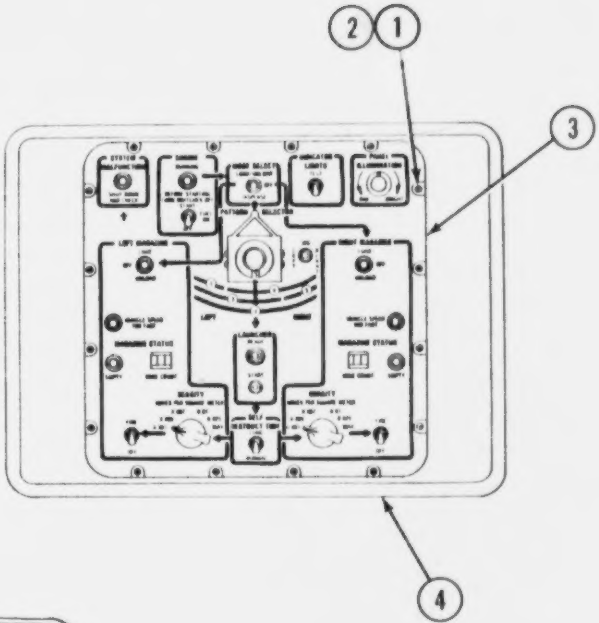
A. OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET REMOVAL

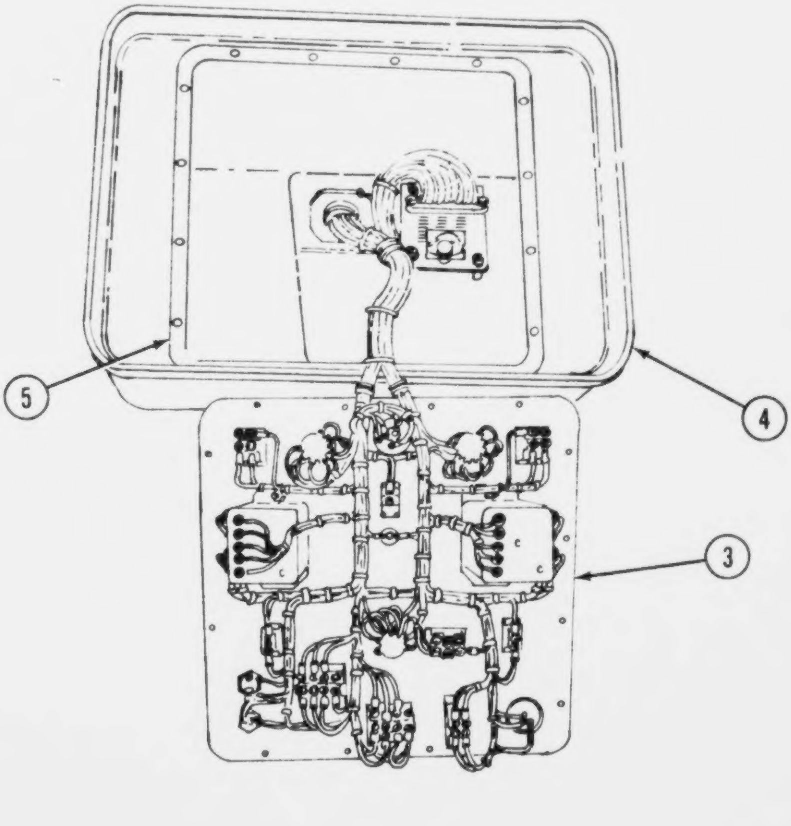
CAUTION

Operator's control panel wiring can be damaged when control panel is removed. Do not pull or twist wiring when removing operator's control panel.

REMOVE OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET FROM OPERATOR CONTROL BOX.

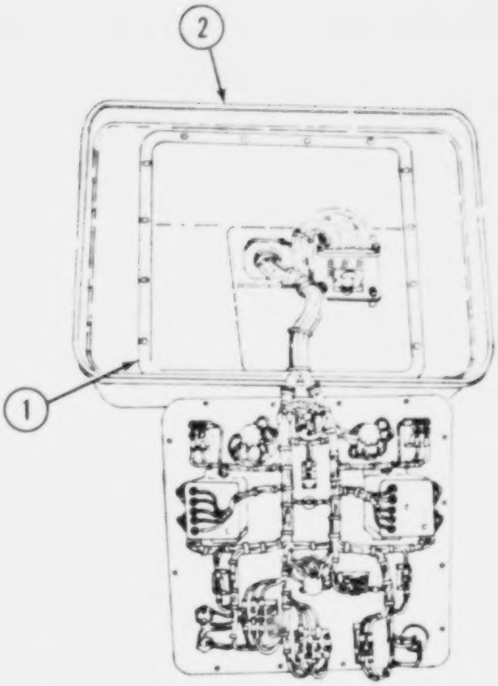
- Remove 16 screws (1) and washers (2) from control panel (3). Use No. 2 cross tip screwdriver.
- Lift control panel (3) from operator control box (4).
- Lay control panel (3) face down on rags.
- Remove gasket (5) from operator control box (4).

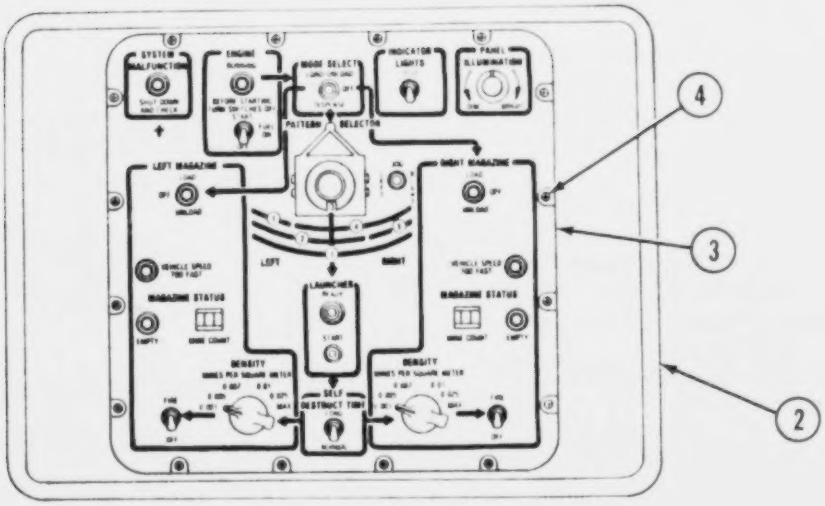




B. OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET INSTALLATION

1. POSITION AND SECURE OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX.
   - Position gasket (1) on operator control box (2) with mounting holes alined.
   - Position control panel (3) on operator control box (2) with mounting holes alined.
   - Install 16 screws (4) on control panel (3). Do not tighten.
2. PERFORM OPERATOR CONTROL BOX TEST PARTS I AND II. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-17.)





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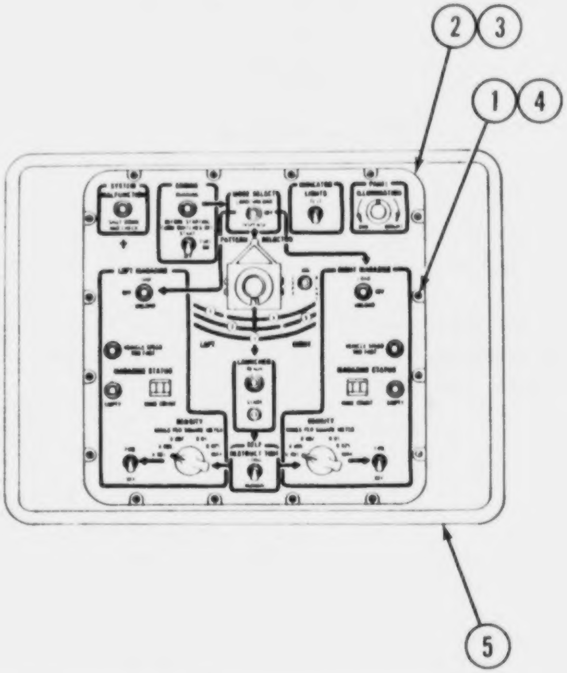
B. OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET INSTALLATION — Continued

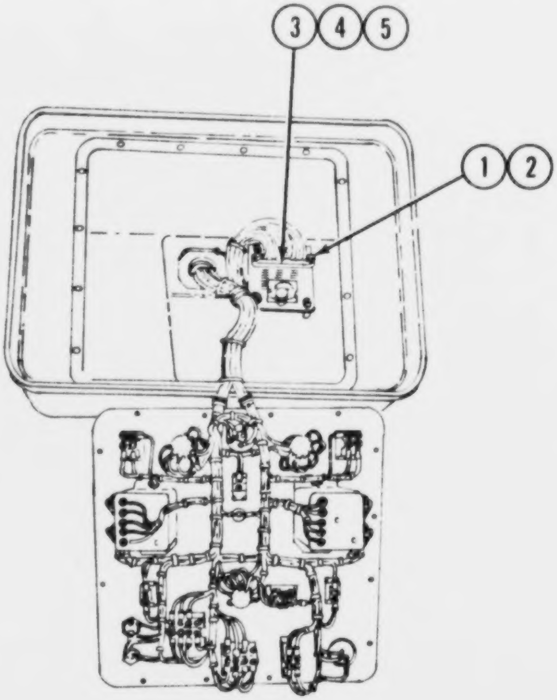
3. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX.
   - Remove 16 screws (1) from control panel (2).
   - Apply sealing compound to threads of 16 screws (1).
   - Install gasket (3), control panel (2), 16 washers (4), and screws (1) on operator control box (5). Use No. 2 cross tip screwdriver.



C. OPERATOR CONTROL BOX DISASSEMBLY

1. REMOVE OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET FROM OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-4.)

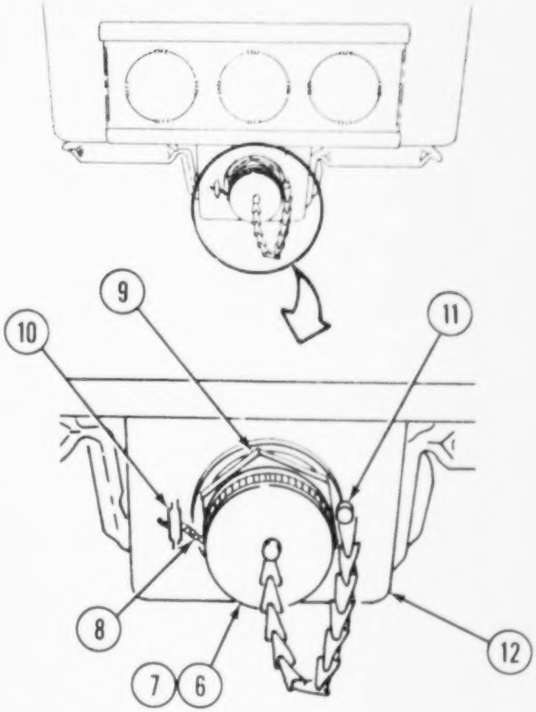
2. DISCONNECT CONNECTOR P3 FROM RECEPTACLE J3.
   - Remove two nuts (1) and lock washers (2) from P3/J3 connection (3). Use 3/16 inch handled socket wrench. Discard lock washers.
   - Disconnect Connector P3 (4) from Receptacle J3 (5).



WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

3. REMOVE RECEPTACLE J5 FROM OPERATOR CONTROL BOX.
   - Turn protective cap (6) to left, and remove from Receptacle J5 (7).
   - Remove safety wire (8) from Receptacle J5 jam nut (9) and lug (10). Use diagonal cutting pliers. Discard safety wire.
   - Remove Receptacle J5 jam nut (9) and lanyard ring (11) from Receptacle J5 (7). Use 15 inch adjustable wrench.
   - Remove Receptacle J5 (7) from operator control box (12).



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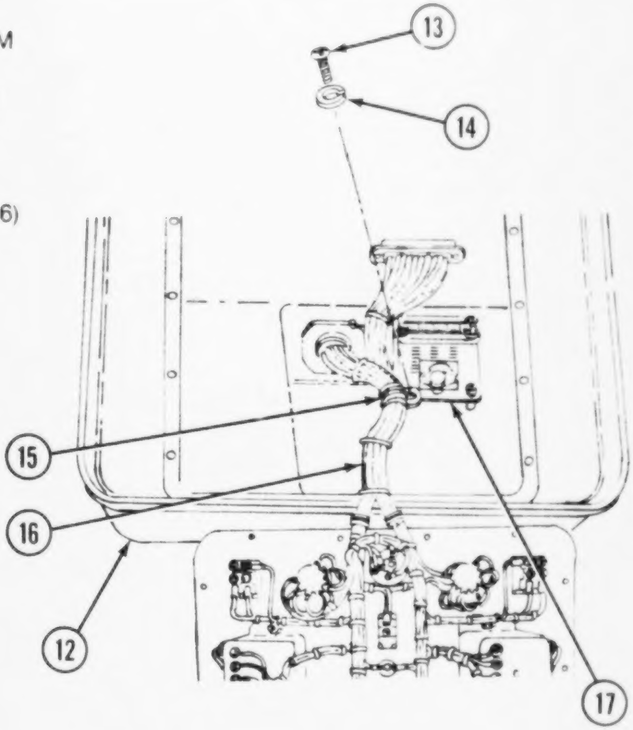
4. REMOVE CLAMP WITH OPERATOR'S CONTROL PANEL WIRING HARNESS FROM OPERATOR CONTROL BOX.
   - Remove screw (13), lock washer (14), and clamp (15) with wiring harness (16) from diode board (17). Use No. 2 cross tip screwdriver. Discard lock washer.
   - Remove clamp (15) with wiring harness (16) from operator control box (12).



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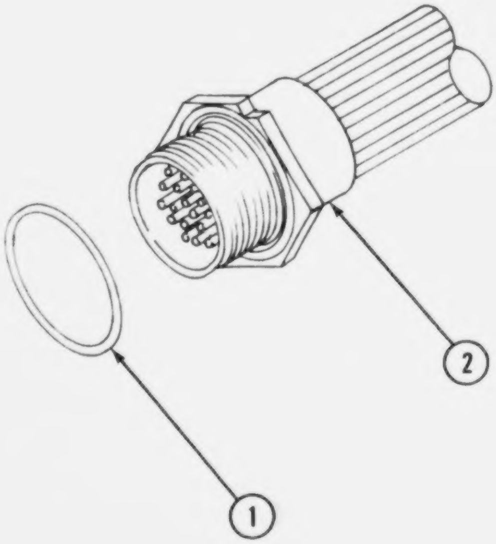
C. OPERATOR CONTROL BOX DISASSEMBLY — Continued

5. REMOVE PREFORMED PACKING FROM RECEPTACLE J5.
   - Remove preformed packing (1) from Receptacle J5 (2). Discard preformed packing.

6. REMOVE DIODE BOARD CIRCUIT CARD ASSEMBLY FROM OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-12.)

7. REMOVE BACK UP BLOCK FROM OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-14.)

8. REMOVE LEG PADS FROM OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-16.)



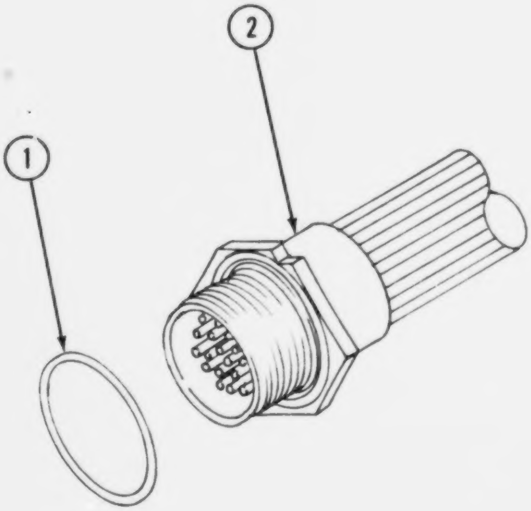
D. OPERATOR CONTROL BOX REASSEMBLY

1. INSTALL LEG PADS ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-16.)

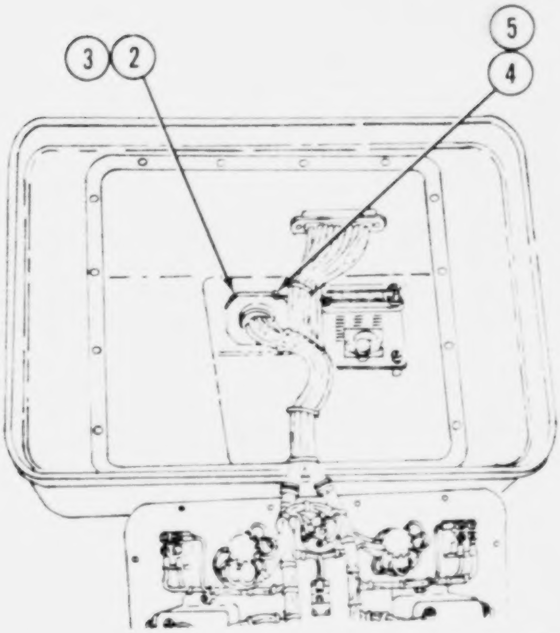
2. INSTALL BACK UP BLOCK ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-15.)

3. INSTALL DIODE BOARD CIRCUIT CARD ASSEMBLY ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-13.)

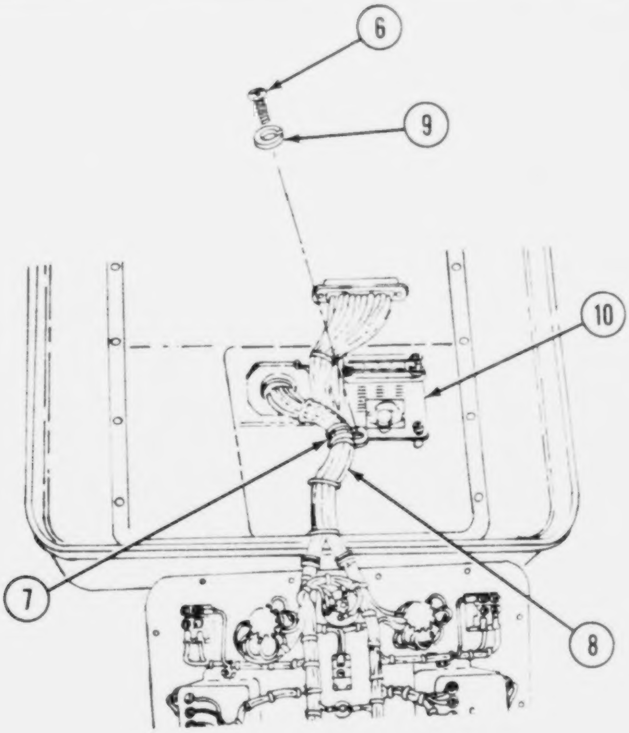
4. INSTALL NEW PREFORMED PACKING (1) ON RECEPTACLE J5 (2).



5. INSTALL CLAMP WITH OPERATOR'S CONTROL PANEL WIRING HARNESS ON OPERATOR CONTROL BOX.
   - Insert Receptacle J5 (2) through mounting hole (3) with notch (4) engaging pin (5).



- Apply sealing compound to threads of screw (6).
- Install clamp (7) with wiring harness (8), new lock washer (9), and screw (6) on diode board (10). Use No. 2 cross tip screwdriver.



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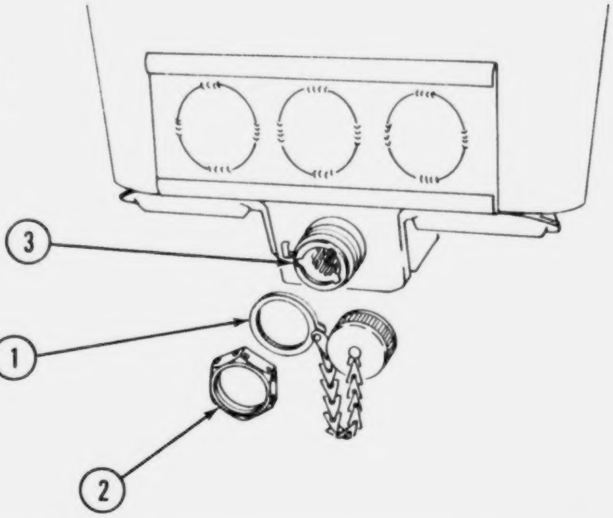
D. OPERATOR CONTROL BOX REASSEMBLY — Continued

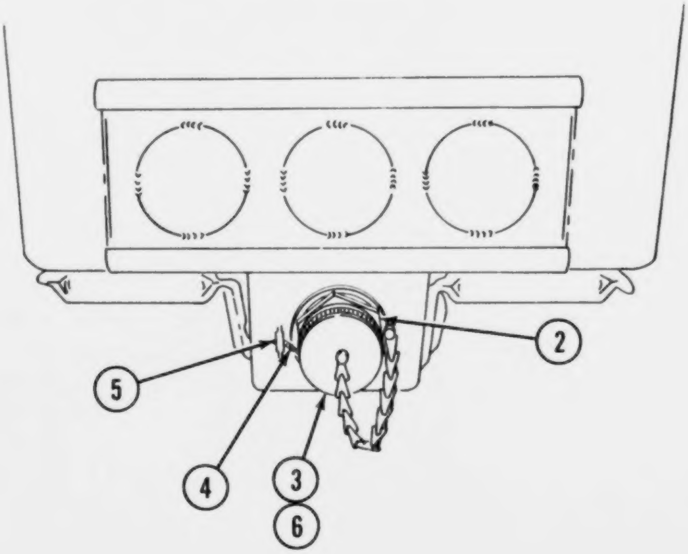
WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

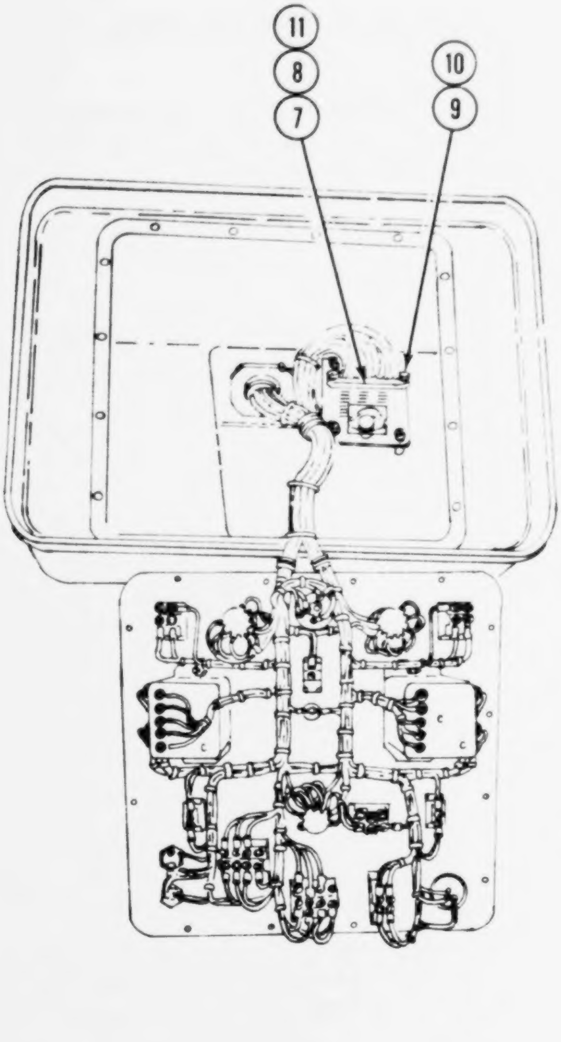
6. INSTALL RECEPTACLE J5 IN OPERATOR CONTROL BOX.
   - Install lanyard ring (1) and receptacle jam nut (2) on Receptacle J5 (3). Use 15 inch adjustable wrench.



- Install new safety wire (4) on receptacle jam nut (2) and lug (5). Use slip joint pliers.
- Install protective cap (6) on Receptacle J5 (3).



7. CONNECT CONNECTOR P3 TO RECEPTACLE J3.
   - Connect Connector P3 (7) to Receptacle J3 (8).
   - Install two new lock washers (9) and nuts (10) on P3/J3 connection (11). Use 3/16 inch handled socket wrench.



8. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-5.)

GO TO NEXT PAGE

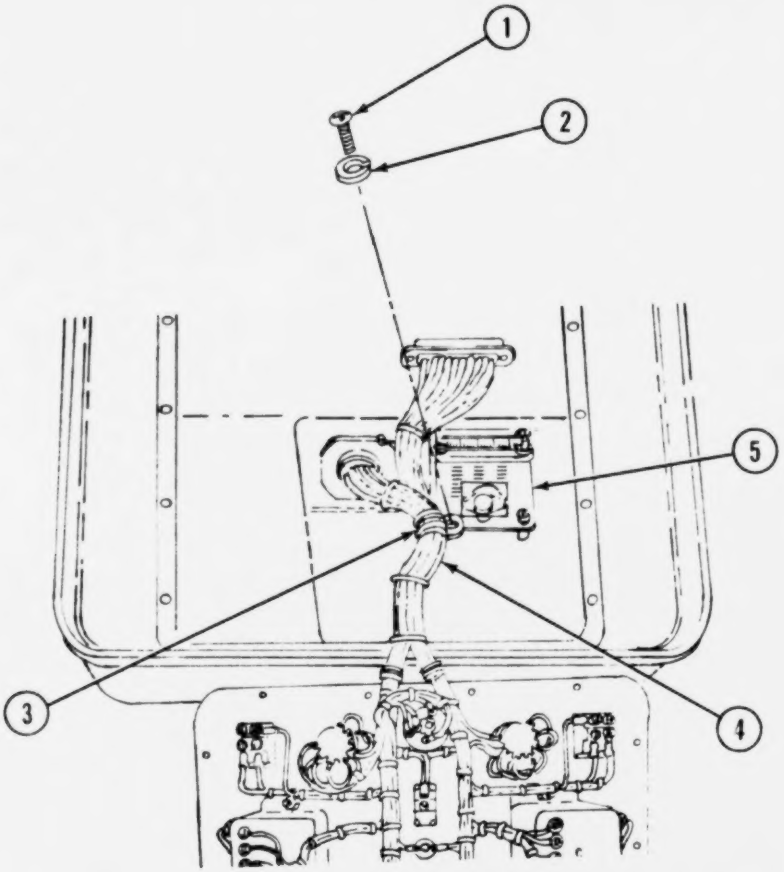
10-4 OPERATOR CONTROL BOX — Continued

E. DIODE BOARD CIRCUIT CARD ASSEMBLY REMOVAL

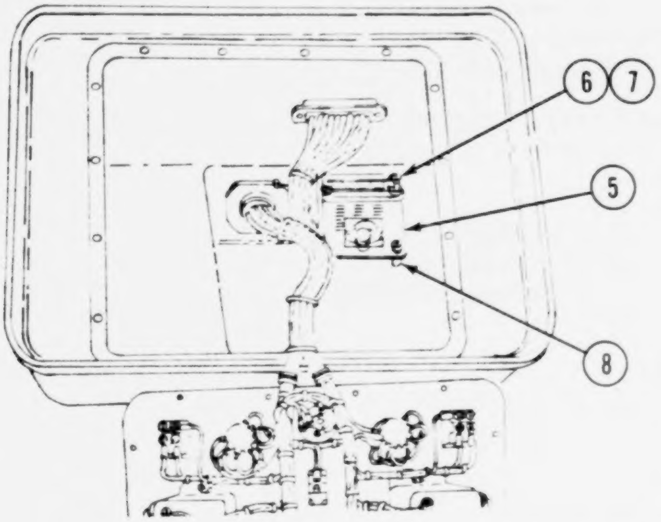
1. REMOVE OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET FROM OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-4.)

2. DISCONNECT CONNECTOR P3 FROM RECEPTACLE J3. (SEE OPERATOR CONTROL BOX, PAGE 10-6.)

3. REMOVE CLAMP WITH WIRING HARNESS FROM DIODE BOARD CIRCUIT CARD ASSEMBLY.
   - Remove screw (1), lock washer (2), and clamp (3) with wiring harness (4) from diode board (5). Use No. 2 cross tip screwdriver. Discard lock washers.

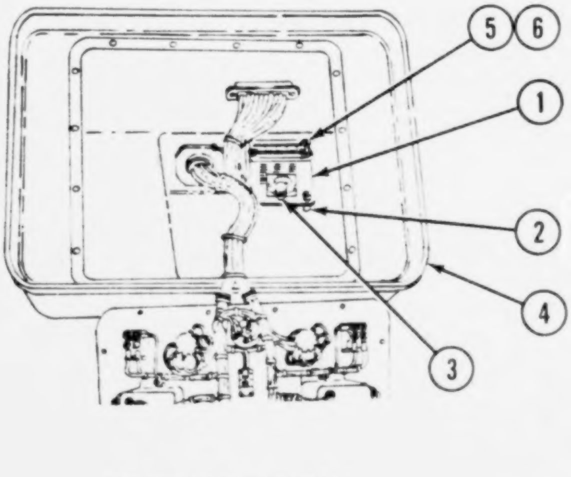


4. REMOVE DIODE BOARD CIRCUIT CARD ASSEMBLY FROM BRACKET.
   - Remove three screws (6), lock washers (7), and diode board (5) from bracket (8). Use No. 2 cross tip screwdriver. Discard lock washers.



F. DIODE BOARD CIRCUIT CARD ASSEMBLY INSTALLATION

1. INSTALL DIODE BOARD CIRCUIT CARD ASSEMBLY ON BRACKET.
   - Position diode board (1) on bracket (2) with transistor (3) towards bottom of operator control box (4).
   - Apply sealing compound to threads of three screws (5).
   - Install diode board (1), three new lock washers (6), and screws (5) on bracket (2). Use No. 2 cross tip screwdriver.



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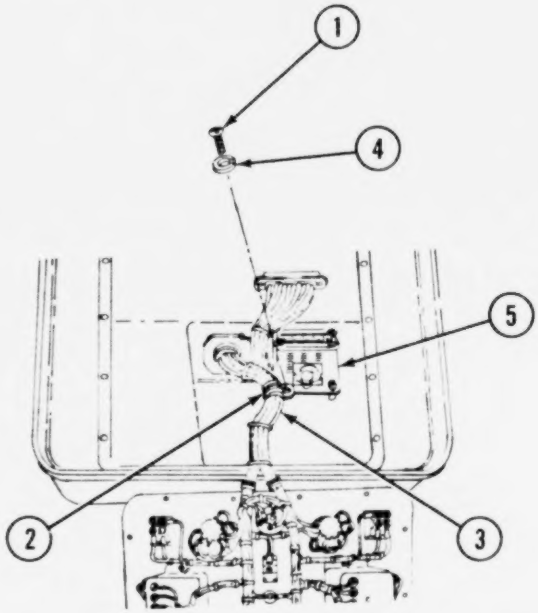
F. DIODE BOARD CIRCUIT CARD ASSEMBLY INSTALLATION — Continued

2. INSTALL CLAMP WITH WIRING HARNESS ON DIODE BOARD CIRCUIT CARD ASSEMBLY.
   - Apply sealing compound to threads of screw (1).
   - Install clamp (2) with wiring harness (3), new lock washer (4), and screw (1) on diode board (5). Use No. 2 cross tip screwdriver.

3. CONNECT CONNECTOR P3 TO RECEPTACLE J3. (SEE OPERATOR CONTROL BOX, PAGE 10-11.)

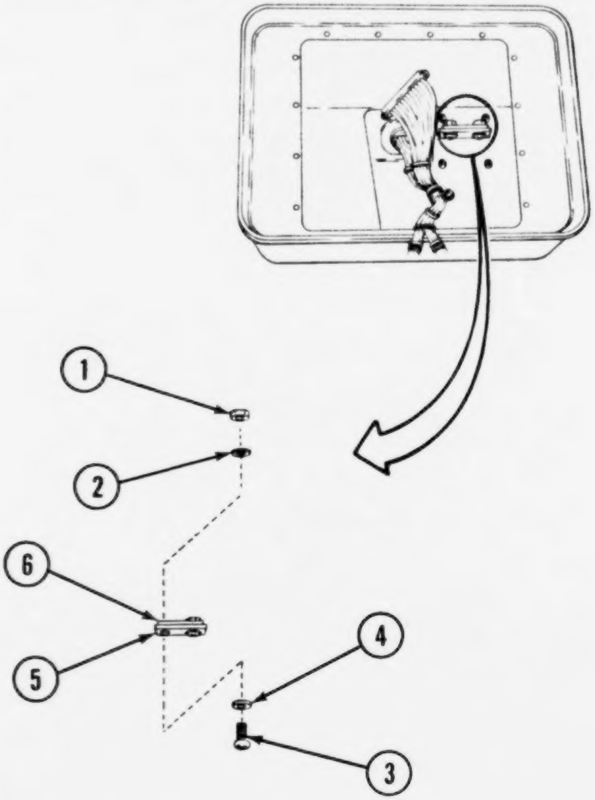
4. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-5.)



G. BACK UP BLOCK REMOVAL

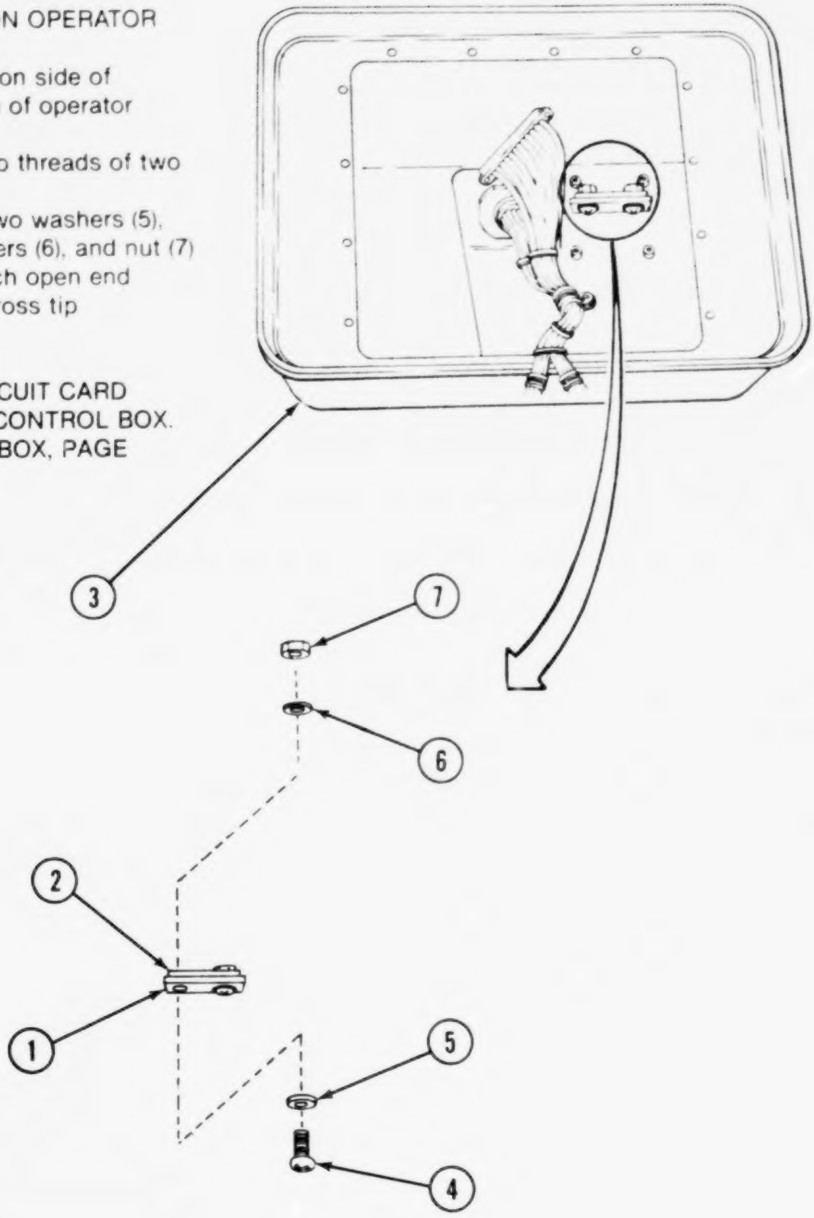
1. REMOVE DIODE BOARD CIRCUIT CARD ASSEMBLY FROM OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-12.)

2. REMOVE BACK UP BLOCK FROM OPERATOR CONTROL BOX BRACKET.
   - Remove two nuts (1), lock washers (2), screws (3), washers (4), and back up block (5) from bracket (6). Use 5/16 inch open end wrench and No. 2 offset cross tip screwdriver. Discard lock washers.



H. BACK UP BLOCK INSTALLATION

1. INSTALL BACK UP BLOCK ON OPERATOR CONTROL BOX BRACKET.
   - Position back up block (1) on side of bracket (2) towards bottom of operator control box (3).
   - Apply sealing compound to threads of two screws (4).
   - Install back up block (1), two washers (5), screws (4), new lock washers (6), and nut (7) on bracket (2). Use 5/16 inch open end wrench and No. 2 offset cross tip screwdriver.
2. INSTALL DIODE BOARD CIRCUIT CARD ASSEMBLY ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-13.)



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10-4 OPERATOR CONTROL BOX — Continued

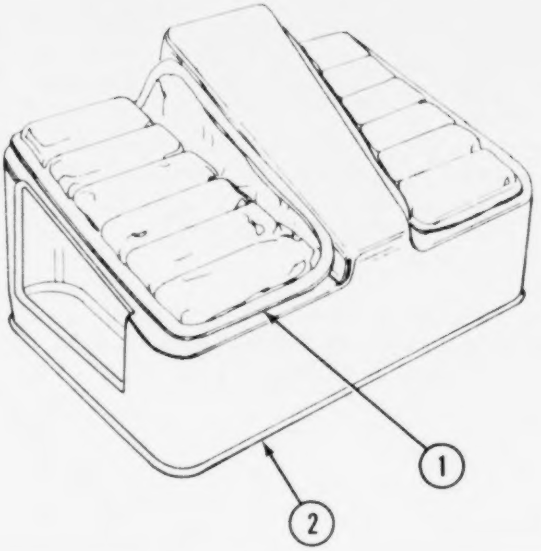
I. OPERATOR CONTROL BOX LEG PADS REMOVAL

WARNING

Cleaning solvent can explode and can burn. Read warning on front page of this manual.

REMOVE TWO LEG PADS FROM OPERATOR CONTROL BOX.

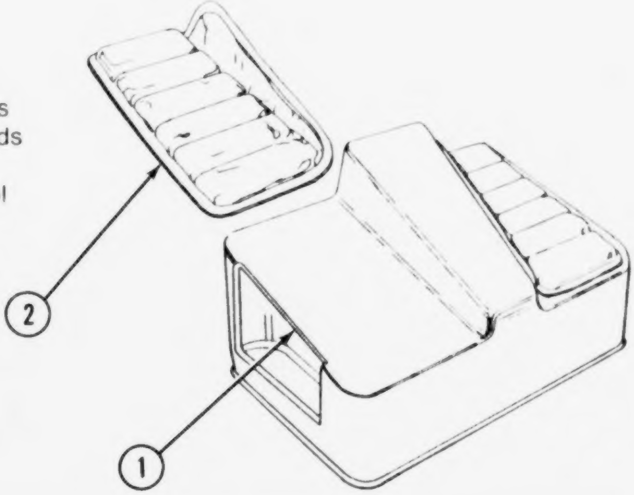
- Remove two leg pads (1) from operator control box (2). Use putty knife.
- Clean mating surfaces of leg pads (1) and operator control box (2). Use solvent, putty knife, and rags.



J. OPERATOR CONTROL BOX LEG PADS INSTALLATION

INSTALL TWO LEG PADS ON OPERATOR CONTROL BOX.

- Apply adhesive cement to mating surfaces of operator control box (1) and two leg pads (2).
- Install two leg pads (2) on operator control box (1).



END OF TASK

10-5 OPERATOR'S CONTROL PANEL ASSEMBLY

DESCRIPTION

This task covers:

A. OPERATOR CONTROL BOX TEST (OCBT) (p 10-18)
B. FACE PANEL AND GASKET REMOVAL (p 10-25)
C. FACE PANEL AND GASKET INSTALLATION (p 10-26)
D. TOGGLE SWITCHES AND CONNECTOR RECEPTACLE J50 REMOVAL (p 10-27)
E. TOGGLE SWITCHES AND CONNECTOR RECEPTACLE J50 INSTALLATION (p 10-29)
F. ROTARY SWITCHES AND POTENTIOMETER REMOVAL (p 10-33)
G. ROTARY SWITCHES AND POTENTIOMETER INSTALLATION (p 10-35)
H. MINE COUNTERS REMOVAL (p 10-37)
I. MINE COUNTERS INSTALLATION (p 10-38)
J. INDICATOR LIGHT BASE REMOVAL (p 10-39)
K. INDICATOR LIGHT BASE INSTALLATION (p 10-40)
L. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS REMOVAL (p 10-42)
M. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS INSTALLATION (p 10-49)
N. OPERATOR'S CONTROL PANEL ASSEMBLY INTERCONNECT WIRING REMOVAL (p 10-56)
O. OPERATOR'S CONTROL PANEL ASSEMBLY INTERCONNECT WIRING INSTALLATION (p 10-62)

INITIAL SETUP

Tools and Special Tools:

General mechanic's tool kit 5180-00-177-7033:
  No. 2 cross tip screwdriver
  1/4 inch flat tip screwdriver
  9/16 inch box end wrench
  9/16 inch open end wrench
  Diagonal cutting pliers
  6 inch steel rule
  Round nose pliers
  Slip joint pliers
Measuring tape 5120-00-287-3335
3/16 inch handled socket wrench 5120-00-224-2599
15 inch adjustable wrench 5120-00-264-3793
1/4 inch drive socket wrench set 5120-00-081-2305:
  5/16 inch socket
  11/32 inch socket
  Speeder handle
Multimeter 6655-00-999-6282
24 V dc power supply 6625-00-841-8917
Test switch
Goggles 4240-00-269-7912

Equipment Condition:

Operator control box on workbench

Materials/Parts:

Lock washer (37) 5310-00-019-0669
Lock washer MS35333-146
Lock washer (2) 5310-01-108-2543
Lock washer MS35333-151
Self-locking nut (7) 5310-00-905-8451
Self-locking nut (4) 5310-00-941-6019
Preformed packing 5330-00-252-6055
Safety wire, Item 23, Appendix B
Sealing compound, Item 25, Appendix B
Bushing seal (10) 5330-00-806-8769
Stranded insulated 20 AWG wire M81044/67-20-9
Crimp No. 6 terminals 5440-00-813-0698
Cable ties 5975-00-727-5753

GO TO NEXT PAGE

INITIAL SETUP — Continued

Personnel Required:	*References:*
Electrical repairer Helper	TM 9-1095-205-20 TM 55-1500-323-25 FO-10 Operator Control Panel Schematic OPERATOR CONTROL BOX, Page 10-3

CAUTION

Wiring behind operator's control panel assembly is fragile and can be damaged without your knowing it. After finishing any installation make sure wiring is intact.

A. OPERATOR CONTROL BOX TEST (OCBT)

1. SET OPERATOR CONTROL BOX SWITCHES IN SETUP POSITION FOR OCBT. (SEE FOLLOWING SWITCHES SETUP POSITION LIST.)

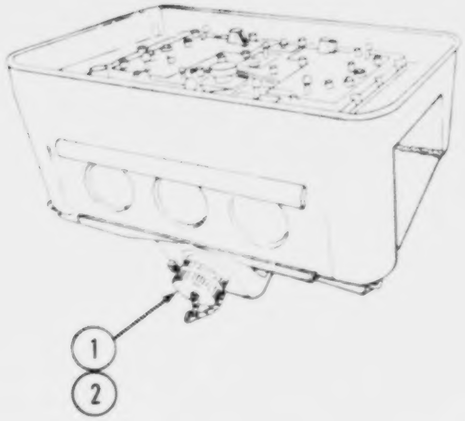
SWITCHES SETUP POSITION LIST

Switch Name	Switch Position
ENGINE START/FUEL ON/OFF	OFF
MODE SELECT	OFF
LEFT MAGAZINE LOAD/OFF/UNLOAD	OFF
RIGHT MAGAZINE LOAD/OFF/UNLOAD	OFF
LEFT MAGAZINE FIRE/OFF	OFF
RIGHT MAGAZINE FIRE/OFF	OFF
LEFT MAGAZINE DENSITY	MAX
RIGHT MAGAZINE DENSITY	MAX
PATTERN SELECTOR	J
JOG	Center (off)
LAUNCHER START	Down (off)
SELF DESTRUCT TIME	Normal
INDICATOR LIGHTS	Down (off)
PANEL ILLUMINATION	DIM

NOTE

The following OCBT Part 1 Performance List shows performance order of Part I of OCBT. The list gives multimeter lead placement, OCB switch name and position, and normal results. Read from left to right across list for each step in Step No. column. Perform OCBT in step order given in Step No. column.

2. PERFORM OCBT PART I.
   - Remove protective cap (1) from Receptacle J5 (2).
   - Position multimeter probes on Receptacle J5 (2). (See followng OCBT Part I Performance List.) Use multimeter. Use helper.



OCBT PART I PERFORMANCE LIST

Step No.	Multimeter on X1		Switch Name	Switch Position	Normal Results (Ohm)
	Positive Lead on J5	Negative Lead on J5			
1	G or M	e	All switches	Setup	Infinity
2	G or M	n	ENGINE START/FUEL ON/OFF		Infinity
	G or M	n	ENGINE START/FUEL ON/OFF	Hold in START	0 to 2
3	G or M	e	ENGINE START/FUEL ON/OFF	FUEL ON	0 to 2
4	F	H or L	MODE SELECT		Infinity
	F	H or L	MODE SELECT	LOAD	0 to 2
5	d	H or L	LEFT MAGAZINE LOAD/OFF/UNLOAD	LOAD	15 to 25
	H or L	d	LEFT MAGAZINE LOAD/OFF/UNLOAD	LOAD	Infinity
	c	H or L	LEFT MAGAZINE LOAD/OFF/UNLOAD	UNLOAD	15 to 25
	c	H or L	LEFT MAGAZINE LOAD/OFF/UNLOAD	OFF	Infinity
6	V	H or L	RIGHT MAGAZINE LOAD/OFF/UNLOAD	LOAD	15 to 25
	H or L	V	RIGHT MAGAZINE LOAD/OFF/UNLOAD	LOAD	Infinity
	W	H or L	RIGHT MAGAZINE LOAD/OFF/UNLOAD	UNLOAD	15 to 25
	W	H or L	RIGHT MAGAZINE LOAD/OFF/UNLOAD	OFF	Infinity

GO TO NEXT PAGE

A. OPERATOR CONTROL BOX TEST (OCBT) — Continued

OCBT PART I PERFORMANCE LIST — Continued

Step No.	Multimeter on X1		Switch Name	Switch Position	Normal Results (Ohm)
	Positive Lead on J5	Negative Lead on J5			
7	W	H or L	MODE SELECT	DISPENSE	Infinity
	W	H or L	RIGHT MAGAZINE DENSITY	0.001	Infinity
	W	H or L	RIGHT MAGAZINE FIRE/OFF	FIRE	15 to 25
	W	H or L	RIGHT MAGAZINE DENSITY	0.010	15 to 25
	W	H or L	RIGHT MAGAZINE DENSITY	0.025	15 to 25
	H or L	W	RIGHT MAGAZINE DENSITY	0.025	Infinity
	V	H or L	RIGHT MAGAZINE DENSITY	MAX	15 to 25
	V	H or L	RIGHT MAGAZINE DENSITY	0.010	15 to 25
	V	H or L	RIGHT MAGAZINE DENSITY	0.005	15 to 25
	H or L	V	RIGHT MAGAZINE DENSITY	0.005	Infinity
	X	H or L	RIGHT MAGAZINE DENSITY	0.001	15 to 25
	X	H or L	RIGHT MAGAZINE DENSITY	0.005	15 to 25
	X	H or L	RIGHT MAGAZINE DENSITY	0.007	15 to 25
	H or L	X	RIGHT MAGAZINE DENSITY	0.007	Infinity
	H or L	X	RIGHT MAGAZINE DENSITY	MAX	Infinity
	H or L	X	RIGHT MAGAZINE FIRE/OFF	OFF	Infinity
8	c	H or L	LEFT MAGAZINE DENSITY	0.001	Infinity
	c	H or L	LEFT MAGAZINE FIRE/OFF	FIRE	15 to 25
	c	H or L	LEFT MAGAZINE DENSITY	0.010	15 to 25
	c	H or L	LEFT MAGAZINE DENSITY	0.025	15 to 25
	H or L	c	LEFT MAGAZINE DENSITY	0.025	Infinity
	d	H or L	LEFT MAGAZINE DENSITY	MAX	15 to 25
	d	H or L	LEFT MAGAZINE DENSITY	0.010	15 to 25
	d	H or L	LEFT MAGAZINE DENSITY	0.005	15 to 25
	H or L	d	LEFT MAGAZINE DENSITY	0.005	. . .
	b	H or L	LEFT MAGAZINE DENSITY	0.001	15 to 25
	b	H or L	LEFT MAGAZINE DENSITY	0.005	15 to 25
	b	H or L	LEFT MAGAZINE DENSITY	0.007	15 to 25
	H or L	b	LEFT MAGAZINE DENSITY	0.007	Infinity
	H or L	b	LEFT MAGAZINE DENSITY	MAX	Infinity
	H or L	b	LEFT MAGAZINE FIRE/OFF	OFF	Infinity
9	K	H or L	JOG	Center	Infinity
	K	H or L	JOG	Hold in LEFT	15 to 25
	K	H or L	JOG	Hold in RIGHT	15 to 25
	H or L	K	JOG	Hold in LEFT	Infinity
	H or L	K	JOG	Hold in RIGHT	Infinity
	H or L	a	JOG	Hold in LEFT	Infinity
	H or L	j	JOG	Hold in LEFT	Infinity
	H or L	j	JOG	Hold in RIGHT	Infinity
	j	H or L	JOG	Hold in RIGHT	15 to 25
	j	H or L	JOG	Hold in LEFT	15 to 25
	a	H or L	JOG	Hold in LEFT	15 to 25

OCBT PART I PERFORMANCE LIST — Continued

Step No.	Multimeter on X1		Switch Name	Switch Position	Normal Results (Ohm)
	Positive Lead on J5	Negative Lead on J5			
10	a	H or L	PATTERN SELECTOR	5	0 to 2
	a	H or L	PATTERN SELECTOR	4	0 to 2
	a	H or L	PATTERN SELECTOR	3	0 to 2
	K	H or L	PATTERN SELECTOR	3	Infinity
	K	H or L	PATTERN SELECTOR	1	0 to 2
	K	H or L	PATTERN SELECTOR	2	Infinity
	K	H or L	PATTERN SELECTOR	3	Infinity
	K	H or L	PATTERN SELECTOR	4	Infinity
	K	H or L	PATTERN SELECTOR	5	0 to 2
	j	H or L	PATTERN SELECTOR	5	Infinity
	j	H or L	PATTERN SELECTOR	4	0 to 2
	j	H or L	PATTERN SELECTOR	3	Infinity
	j	H or L	PATTERN SELECTOR	2	0 to 2
	j	H or L	PATTERN SELECTOR	J	Infinity
11	E	H or L	SELF DESTRUCT TIME	NORMAL	0 to 2
	J	H or L	SELF DESTRUCT TIME	NORMAL	0 to 2
	J	H or L	SELF DESTRUCT TIME	Hold in LONG	Infinity
	h	H or L	SELF DESTRUCT TIME	Hold in LONG	0 to 2
	h	H or L	SELF DESTRUCT TIME	NORMAL	Infinity
	G or M	Z	SELF DESTRUCT TIME	NORMAL	215 to 225
	Z	G or M	SELF DESTRUCT TIME	NORMAL	15 to 20
	F	E	SELF DESTRUCT TIME	NORMAL	Infinity
	F	E	MODE SELECT	OFF	Infinity
	F	E	LAUNCHER START	Hold in START	15 to 25
	E	F	LAUNCHER START	Hold in START	Infinity

GO TO NEXT PAGE

A. OPERATOR CONTROL BOX TEST (OCBT) — Continued

CAUTION

Making electrical connections with power supply switch/test switch ON can damage equipment. Make sure that test switch is OFF when connecting and disconnecting test leads.

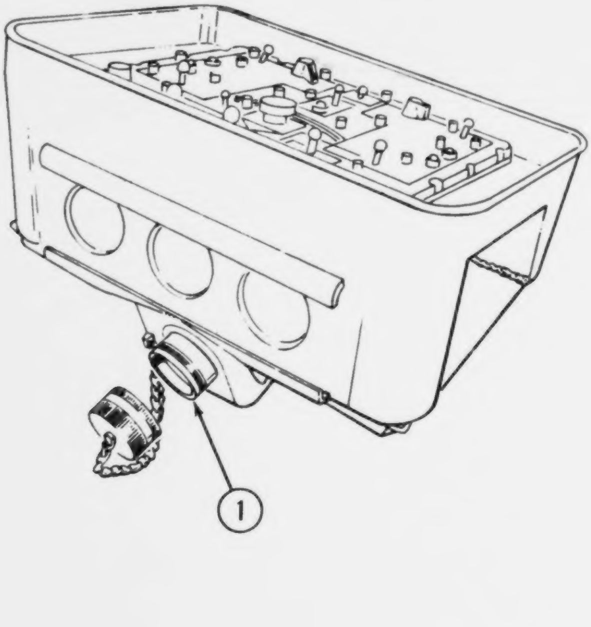
NOTE

The 24 V dc power supply must have a test (ON/OFF) switch on one test lead.

• • • •

The OCBT Part II Performance List (Page 10-23) shows performance order of Part II of OCBT. The list gives power supply test lead placement, OCB switch name and position, and normal results. Read from left to right across list for each step in Step no. column. Perform OCBT in step order given in Step no. column.

3. PERFORM OCBT PART II.
   - Position power supply leads on Receptacle J5 (1). (See OCBT Part II Performance List, Page 10-23.) Use 24 V dc power supply. Use helper.



OCBT PART II PERFORMANCE LIST

Step No.	24 V dc Power		Switch Name and Position	Normal Results
	Positive Lead on J5	Negative Lead on J5		
1	G or M	A	Set power supply switch/test switch ON, then Off, five times.	LEFT MAGAZINE STATUS MINE COUNT display counts up one unit each time switch is ON.
	G or M	B with jumper to H	Set power supply switch/test switch ON, the OFF, until LEFT MAGAZINE STATUS MINE COUNT display reads 000.	LEFT MAGAZINE STATUS MINE COUNT display counts down one unit each time switch is ON. When display reaches 000, display stops counting, and LEFT MAGAZINE STATUS EMPTY light comes on.
2	G or M	C	Set power supply switch/test switch ON, then OFF, five times.	RIGHT MAGAZINE STATUS MINE COUNT display counts up one unit each time switch is ON.
	G or M	D with jumper to H	Set power supply switch/test switch ON, then OFF, until RIGHT MAGAZINE STATUS MINE COUNT display reads 000.	RIGHT MAGAZINE STATUS MINE COUNT display counts down one unit each time switch is ON. When display reaches 000, display stops counting, and RIGHT MAGAZINE STATUS EMPTY light comes on.
3	G or M	N	Set power supply switch/test switch ON.	ENGINE RUNNING light comes on.
	G or M	P	Set power supply switch/test switch ON.	SYSTEM MALFUNCTION light comes on.
	G or M	R	Set power supply switch/test switch ON.	LAUNCHER READY light comes on.
	G or M	S	Set power supply switch/test switch ON.	LEFT MAGAZINE VEHICLE SPEED TOO FAST light comes on.
	G or M	T	Set power supply switch/test switch ON.	RIGHT MAGAZINE VEHICLE SPEED TOO FAST light comes on.

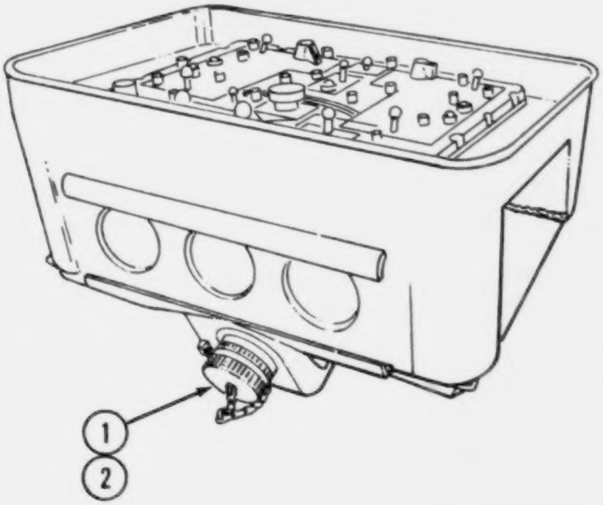
GO TO NEXT PAGE

A. OPERATOR CONTROL BOX TEST (OCBT) — Continued

OCBT PART II PERFORMANCE LIST — Continued

Step No.	24 V dc Power		Switch Name and Position	Normal Results
	Positive Lead on J5	Negative Lead on J5		
4	G or M	H or L	Set power supply switch/test switch ON. Lift and hold INDICATOR LIGHTS switch to TEST.	Seven indicator lights come on.
5	G or M	H or L	Set power supply switch/test switch to ON. Turn PANEL ILLUMINATION switch to BRIGHT.	Operator's control panel edge lighting comes on.

4. INSTALL PROTECTIVE CAP (1) ON RECEPTACLE J5 (2).



B. FACE PANEL AND GASKET REMOVAL

NOTE

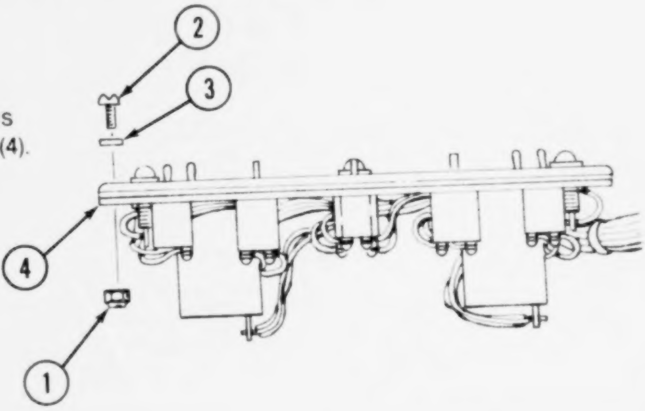
PRELIMINARY PROCEDURES:
Remove Operator's Control Panel Assembly And Gasket. (See Operator Control Box, Page 10-3.)
Remove Operator's Control Panel Assembly Knobs. (See TM 9-1095-205-20.)

CAUTION

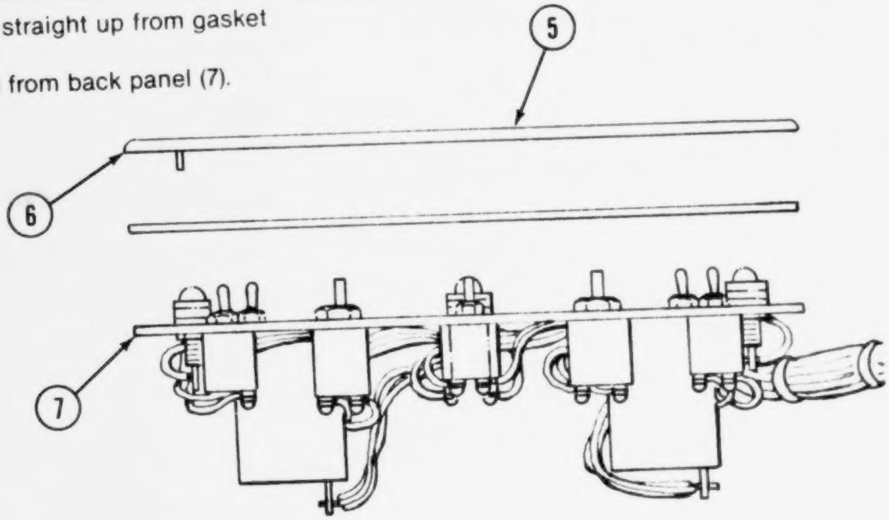
Plug Connector P50 can be damaged if face panel is not removed carefully. Pull face panel straight up from gasket to prevent damage to Plug Connector P50.

REMOVE FACE PANEL AND GASKET FROM BACK PANEL.

- Remove seven self-locking nuts (1), screws (2), and washers (3) from panel assembly (4). Use 5/16 inch socket with 1/4 inch drive speeder handle and No. 2 cross tip screwdriver. Discard self-locking nuts.



- Pull face panel (5) straight up from gasket (6).
- Remove gasket (6) from back panel (7).



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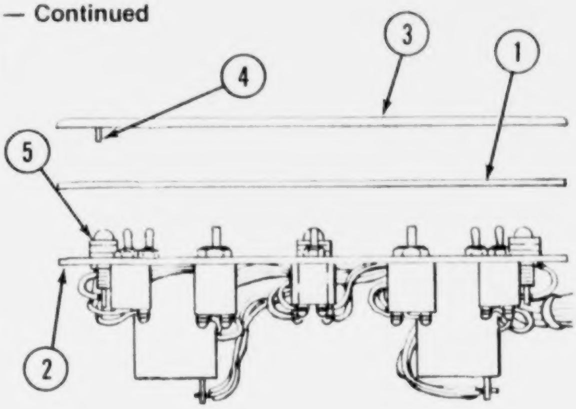
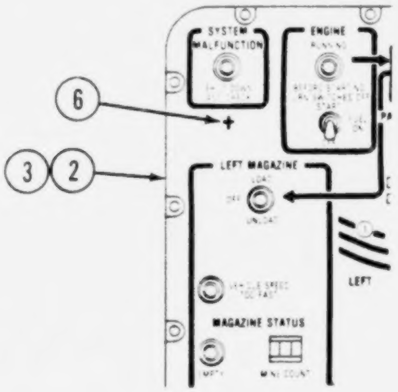
10-5 OPERATOR'S CONTROL PANEL ASSEMBLY — Continued

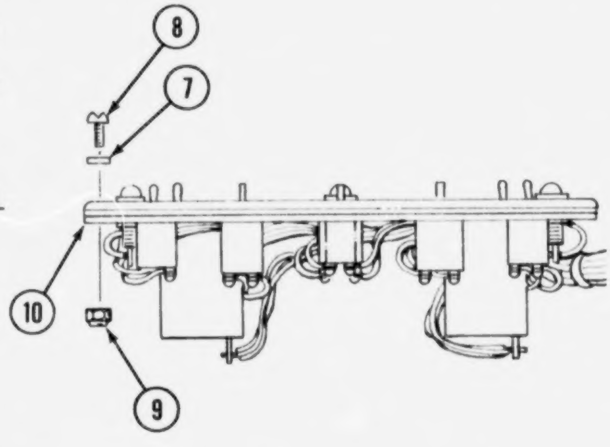
C. FACE PANEL AND GASKET INSTALLATION

1. INSTALL GASKET AND FACE PANEL ON BACK PANEL.
   - Position gasket (1) on back panel (2), with mounting holes alined.
   - Aline face panel (3) and Connector P50 (4) with back panel (2) and Receptacle J50 (5).
   - Press face panel (3) and back panel (2) together with thumb pressure on + mark (6) on face panel (3).





   - Install seven washers (7), screws (8), and new self-locking nuts (9) on panel assembly (10). Use No. 2 cross tip screwdriver and 5/16 inch socket with 1/4 inch drive speeder handle.



2. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY KNOBS ON OPERATOR CONTROL BOX. (SEE TM 9-1095-205-20.)

3. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-3.)

4. PERFORM OPERATOR CONTROL BOX TEST (OCBT). (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-18.)

D. TOGGLE SWITCHES AND CONNECTOR RECEPTACLE J50 REMOVAL

NOTE

PRELIMINARY PROCEDURES:

Remove Operator's Control Panel Assembly And Gasket. (See Operator Control Box, Page 10-3.)

Remove Operator's Control Panel Assembly Knobs. (See TM 9-1095-205-20.)

1. REMOVE FACE PANEL AND GASKET FROM BACK PANEL. (SEE OPERATOR CONTROL PANEL ASSEMBLY, PAGE 10-25.)

NOTE

The following are designations for operator's control panel assembly toggle switches:

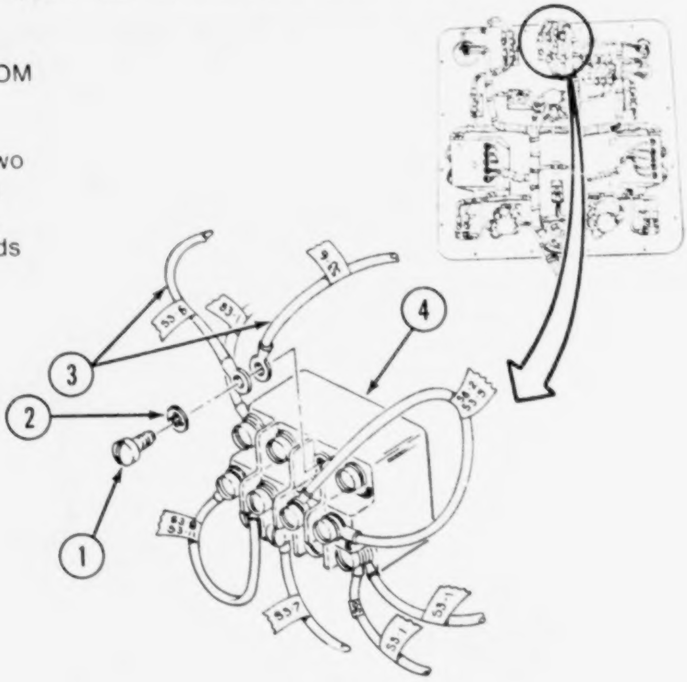
S1	S4	S8	S13
S2	S6	S9	
S3	S7	S11	

These designations are placarded on rear of back panel.

• • • •

Leads and jumper leads are removed from toggle switches and Receptacle J50 the same way. Step 2 shows Toggle Switch S3. If you remove leads from more than J50 or one switch, you must increase parts listed for them in Initial Setup.

2. REMOVE LEADS AND JUMPER LEADS FROM TOGGLE SWITCH S3.
   - Tag and mark leads and jumper leads.
   - Remove screw (1), lock washer (2), and two leads (3) from Switch S3 (4). Use 1/4 inch flat tip screwdriver. Discard lock washer.
   - Repeat above removal step for other leads and jumper leads.



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D. TOGGLE SWITCHES AND CONNECTOR RECEPTACLE J50 REMOVAL — Continued

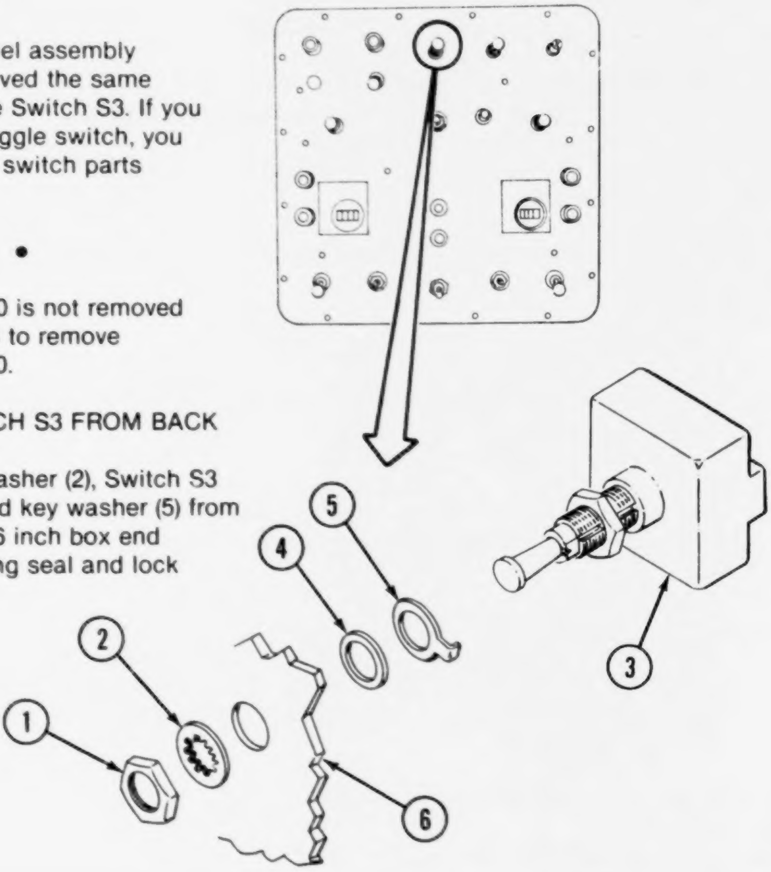
NOTE

All operator's control panel assembly toggle switches are removed the same way. Step 3 shows Toggle Switch S3. If you replace more than one toggle switch, you must increase the toggle switch parts listed in Initial Setup.

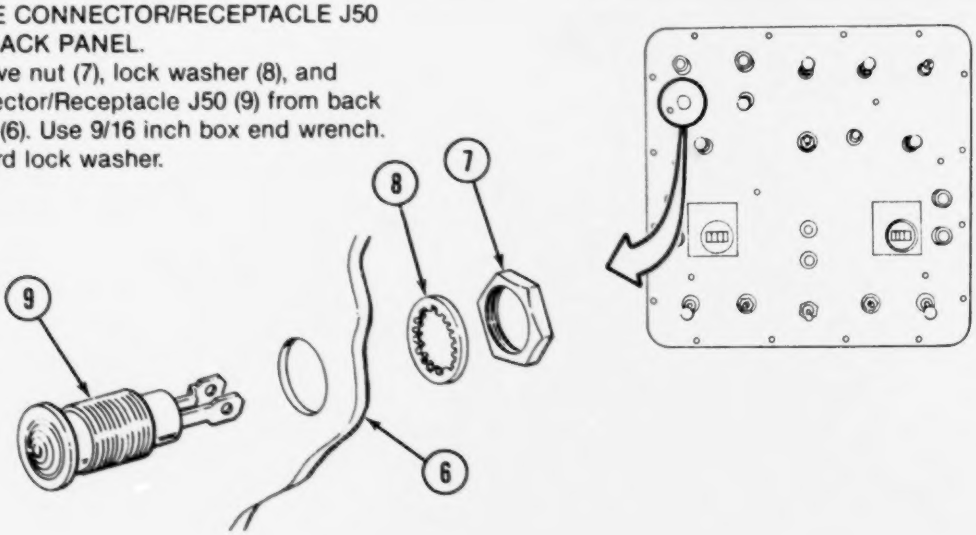
• • • •

Connector/Receptacle J50 is not removed the same way. See step 4 to remove Connector/Receptacle J50.

3. REMOVE TOGGLE SWITCH S3 FROM BACK PANEL.
   - Remove nut (1), lock washer (2), Switch S3 (3), bushing seal (4), and key washer (5) from back panel (6). Use 9/16 inch box end wrench. Discard bushing seal and lock washer.

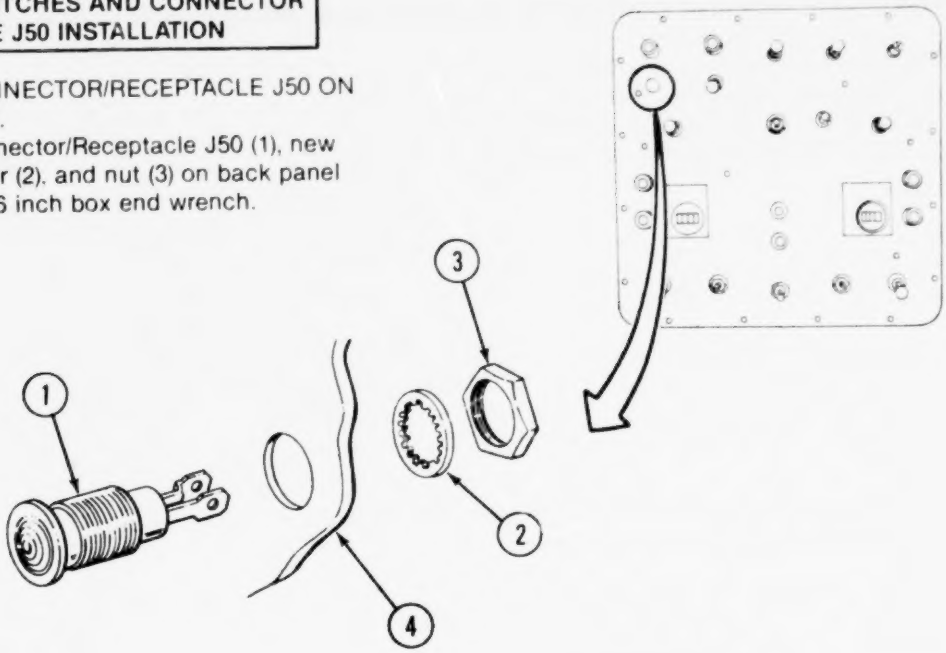


4. REMOVE CONNECTOR/RECEPTACLE J50 FROM BACK PANEL.
   - Remove nut (7), lock washer (8), and Connector/Receptacle J50 (9) from back panel (6). Use 9/16 inch box end wrench. Discard lock washer.



E. TOGGLE SWITCHES AND CONNECTOR RECEPTACLE J50 INSTALLATION

1. INSTALL CONNECTOR/RECEPTACLE J50 ON BACK PANEL.
   - Install Connector/Receptacle J50 (1), new lock washer (2), and nut (3) on back panel (4). Use 9/16 inch box end wrench.



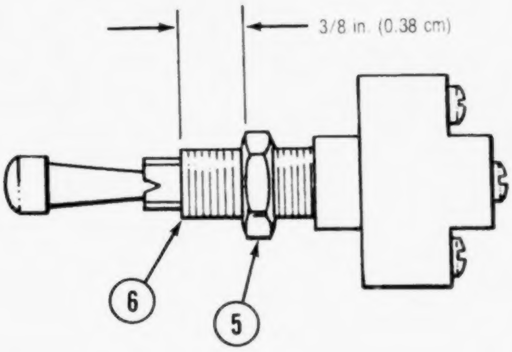
NOTE

All operator's control panel assembly toggle switches are installed the same way. Steps 2 thru 4 show Toggle Switch S3. If you replace more than one toggle switch, you must increase the toggle switch parts listed in Initial Setup.

• • • •

Bushing seal is placarded with TOP on one side and BOTTOM on the other side. Side placarded BOTTOM must be installed facing switch.

2. PREPARE TOGGLE SWITCH S3 FOR INSTALLATION.
   - Turn nut (5) onto switch shaft (6) 3/8 in. (0.38 cm). Use 6 inch steel rule.



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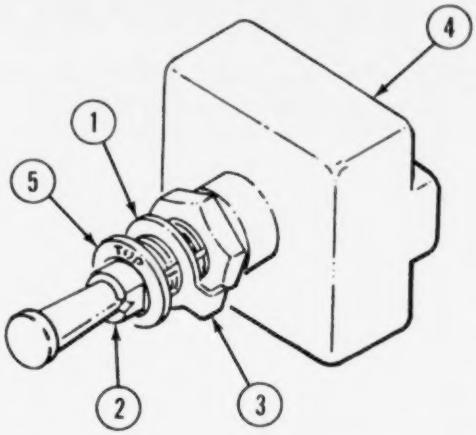
E. TOGGLE SWITCHES AND CONNECTOR RECEPTACLE J50 INSTALLATION — Continued

- Install key washer (1) on switch shaft (2) with tang (3) toward Switch S3 (4).
- Install new bushing seal (5) on shaft (2) with BOTTOM side against key washer (1).



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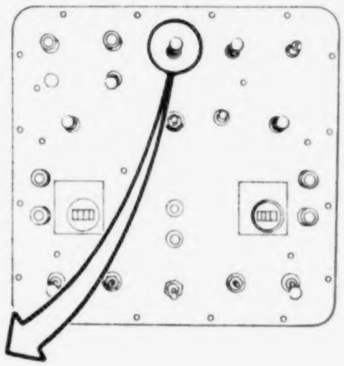
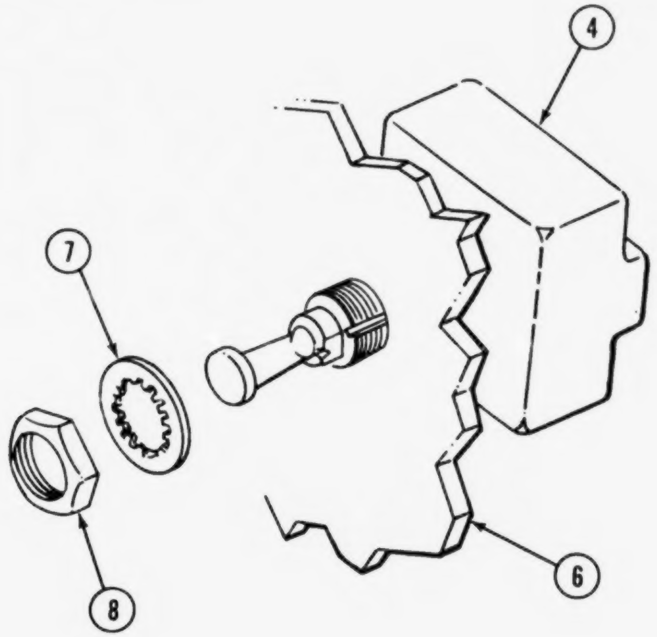
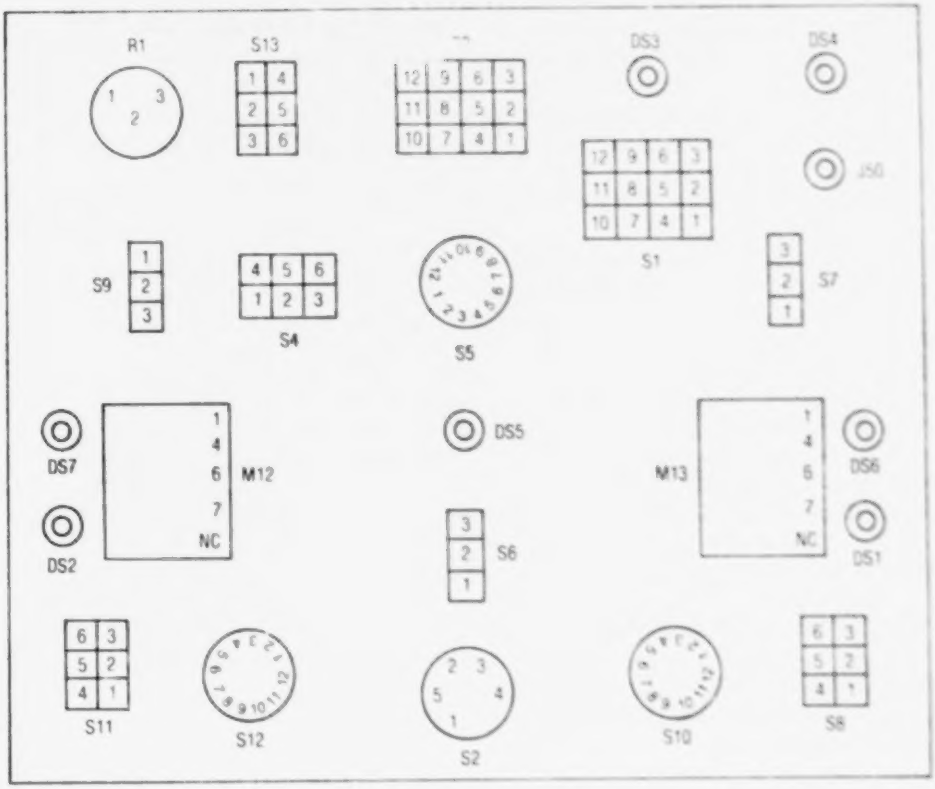
3. INSTALL TOGGLE SWITCH S3 ON BACK PANEL.
   - Position Switch S3 (4) on back panel (6) with Terminal 12 at upper left. (See Rear of Back Panel Toggle Switch Positioning Diagram, Page 10-31.)
   - Install Switch S3 (4), new lock washer (7), and nut (8) on back panel (6). Use 9/16 inch box end wrench.







Rear of Back Panel Toggle Switch Positioning Diagram

GO TO NEXT PAGE

E. TOGGLE SWITCHES AND CONNECTOR RECEPTACLE J50 INSTALLATION — Continued

NOTE

The following are designations for operator's control panel assembly toggle switches:

S1
S2
S3
S4
S6
S7
S8
S9
S11
S13

These designations are placarded on rear of back panel.

• • • •

Leads and jumper leads are installed on toggle switches and Receptacle J50 the same way. Step 4 shows Toggle Switch S3. If you install leads on more than J50 or one switch, you must increase parts listed for them in Initial Setup.

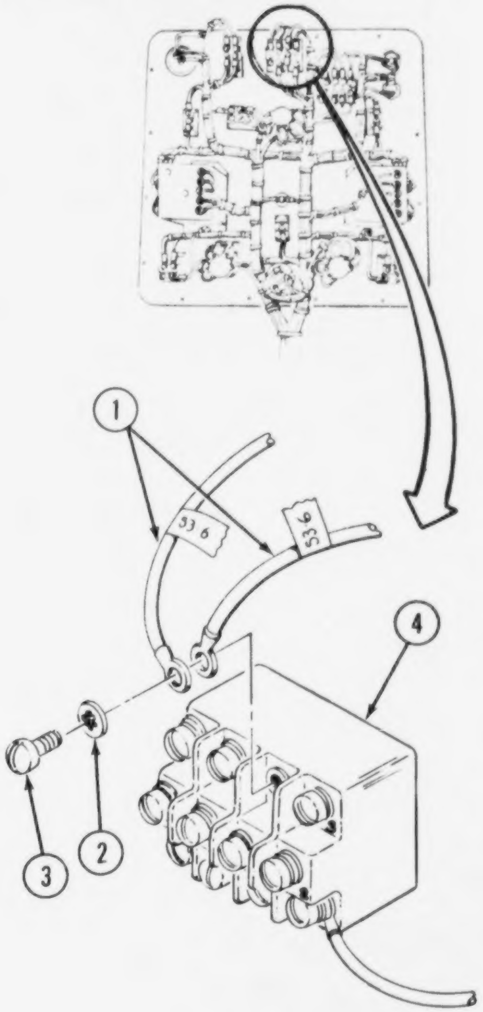
4. INSTALL LEADS AND JUMPER LEADS ON TOGGLE SWITCH S3.
   - Install two leads (1), new lock washer (2), and screw (3) on Switch S3 (4). (See foldout FO-10 Operator Control Panel Schematic.) Use 1/4 inch flat tip screwdriver.
   - Repeat above installation step for other leads and jumper leads.
   - Remove tags from leads and jumper leads.

5. INSTALL GASKET AND FACE PANEL ON BACK PANEL. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-26.)

6. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY KNOBS ON OPERATOR CONTROL BOX. (SEE TM 9-1095-205-20.)

7. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-3.)

8. PERFORM OPERATOR CONTROL BOX TEST (OCBT). (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-18.)



F. ROTARY SWITCHES AND POTENTIOMETER REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Remove Operator's Control Panel Assembly And Gasket. (See Operator Control Box, Page 10-3.)
Remove Operator's Control Panel Assembly Knobs. (See TM 9-1095-205-20.)

1. REMOVE FACE PANEL AND GASKET FROM BACK PANEL. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-25.)

NOTE

Rotary switch terminals are identified by switch number, terminal number, and terminal level. Each rotary switch has three terminal levels. Each level has a ring of terminals around it. Terminal level nearest the panel is the front (F) level. Terminal level nearest the placarded end plate is the rear (R) level. The level between the front and rear level is the center (C) level. Terminal numbers correspond to the numbers 1 thru 12 placarded on the end plate. For example, to identify a lead connected to Rotary Switch S5, Terminal 5, center level, tag and mark lead "S5-5C."

• • • •

There are three long terminals, one at each level, between placarded numbers 12 and 1. These are common terminals. They are identified as common front (Com F), common center (Com C), and common rear (Com R) in the text.

• • • •

The following are designations for operator's control panel assembly rotary switches:

S5 S10 S12

These designations are placarded on rear of back panel.

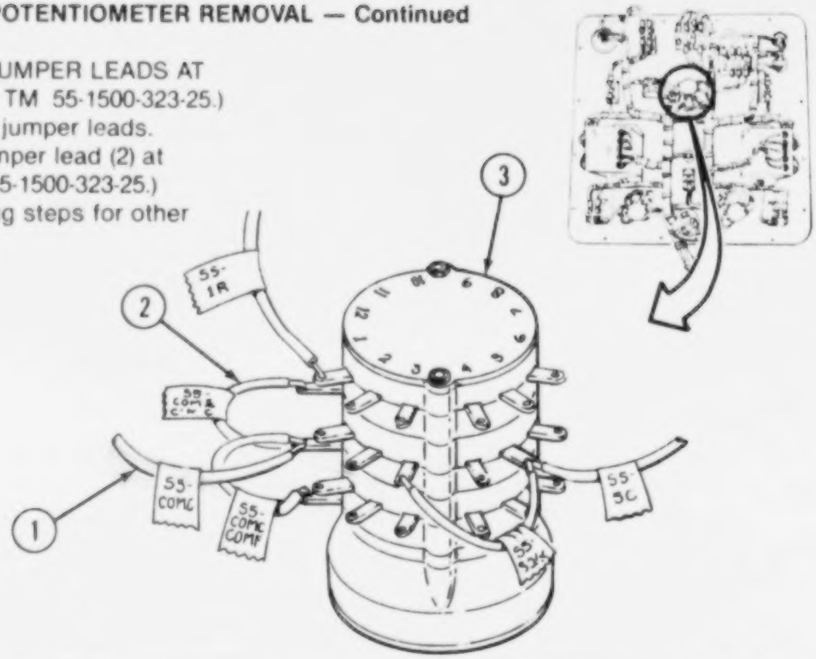
• • • •

All operator's control panel assembly rotary switches and Potentiometer R1 are removed the same way. Steps 2 and 3 show Rotary Switch S5. If you replace more than the potentiometer or one switch, you must increase parts listed for them in Initial Setup.

GO TO NEXT PAGE

F. ROTARY SWITCHES AND POTENTIOMETER REMOVAL — Continued

2. UNSOLDER LEADS AND JUMPER LEADS AT ROTARY SWITCH S5. (SEE TM 55-1500-323-25.)
   - Tag and mark leads and jumper leads.
   - Unsolder lead (1) and jumper lead (2) at Switch S5 (3). (See TM 55-1500-323-25.)
   - Repeat above unsoldering steps for other leads and jumper leads.



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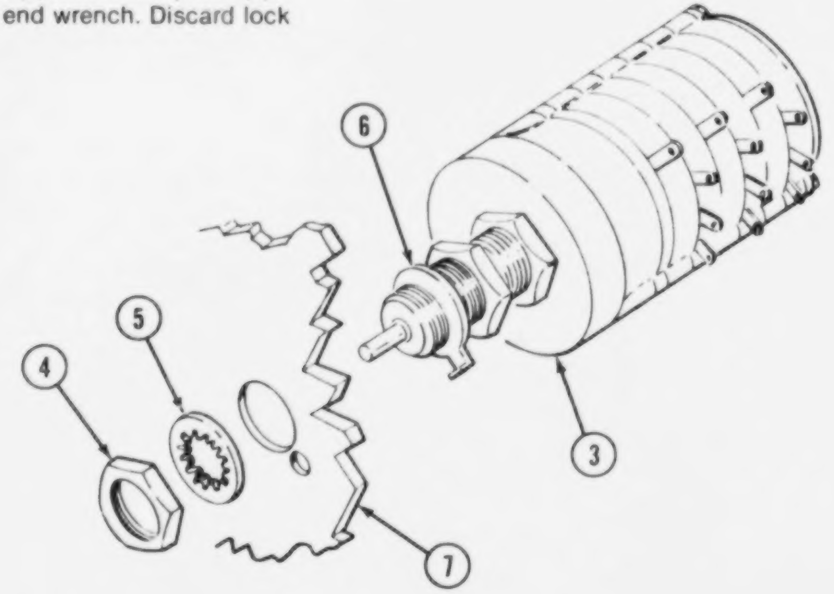
3. REMOVE ROTARY SWITCH S5 FROM BACK PANEL.
   - Remove nut (4), lock washer (5), Switch S5 (3), and key washer (6) from back panel (7). Use 9/16 inch box end wrench. Discard lock washer.



G. ROTARY SWITCHES AND POTENTIOMETER INSTALLATION

NOTE

The following are designations for operator's control panel assembly rotary switches:

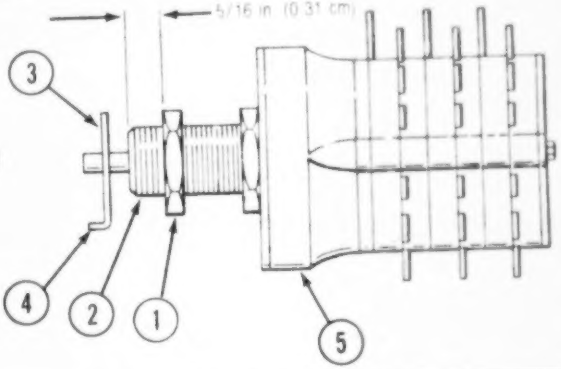
S5 S10 S12

These designations are placarded on rear of back panel.

• • • •

All operator's control panel assembly rotary switches and Potentiometer R1 are installed the same way. Steps 1 thru 3 show Rotary Switch S5. If you replace more than the potentiometer or one switch, you must increase parts listed for them in Initial Setup.

1. PREPARE ROTARY SWITCH S5 FOR INSTALLATION.
   - Turn nut (1) onto switch shaft (2) 5/16 in. (0.31 cm). Use steel rule.
   - Install key washer (3) on shaft (2) with tang (4) away from Switch S5 (5).



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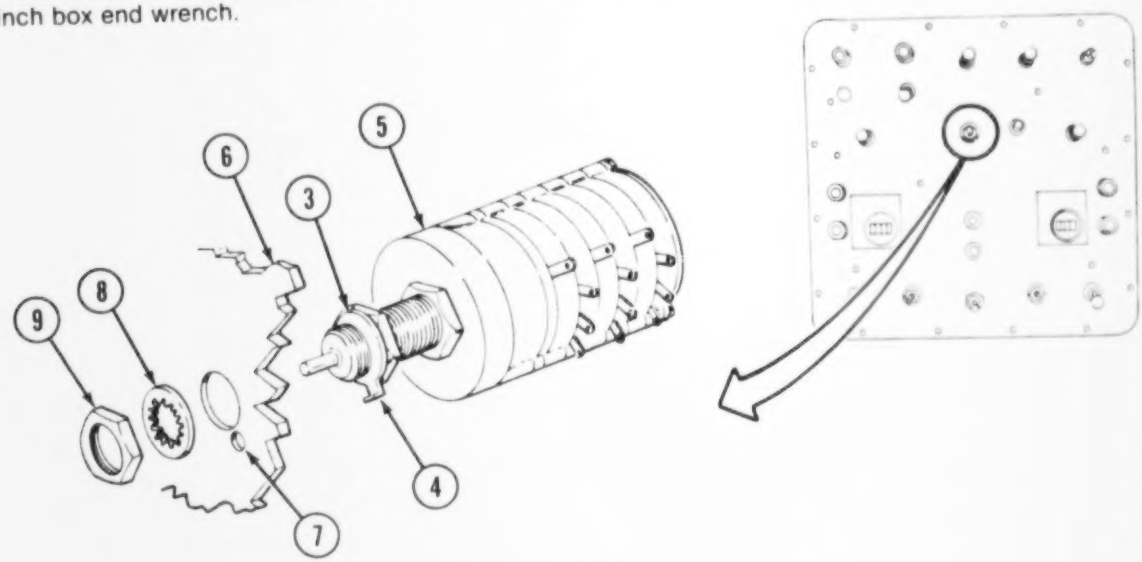
2. INSTALL ROTARY SWITCH S5 ON BACK PANEL.
   - Position Switch S5 (5) on back panel (6) with tang (4) in small hole (7).
   - Install Switch S5 (5) with key washer (3), new lock washer (8), and nut (9) on back panel (6). Use 9/16 inch box end wrench.



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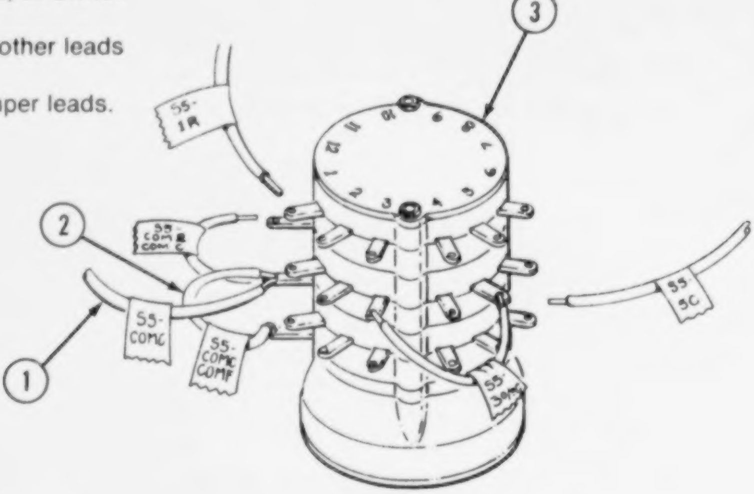
G. ROTARY SWITCHES AND POTENTIOMETER INSTALLATION — Continued

3. SOLDER LEADS AND JUMPER LEADS AT ROTARY SWITCH S5. (SEE TM 55-1500-323-25.)
   - Solder lead (1) and jumper lead (2) at Switch S5 (3). (See TM 55-1500-323-25.)
   - Repeat above soldering step for other leads and jumper leads.
   - Remove tags from leads and jumper leads.



4. INSTALL GASKET AND FACE PANEL ON BACK PANEL. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-26.)

5. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY KNOBS ON OPERATOR CONTROL BOX. (SEE TM 9-1095-205-20.)

6. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-3.)

7. PERFORM OPERATOR CONTROL BOX TEST (OCBT). (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-18.)

H. MINE COUNTERS REMOVAL

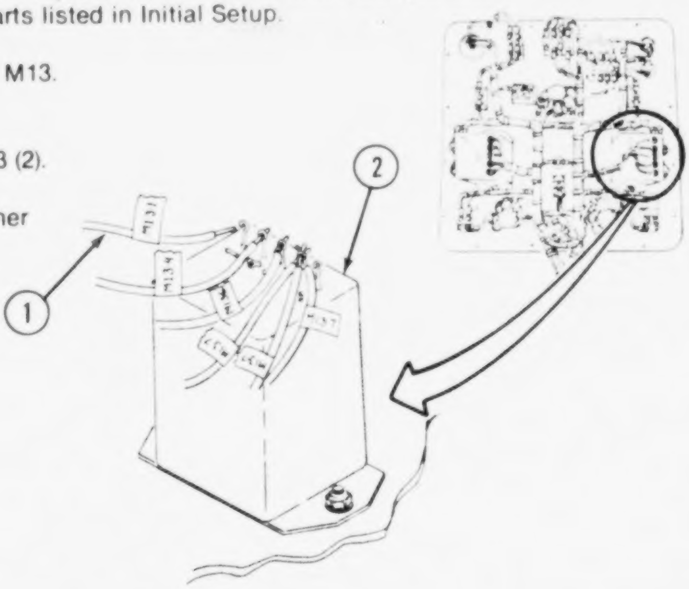
NOTE

PRELIMINARY PROCEDURE:
Remove Operator's Control Panel Assembly And Gasket. (See Operator Control Box, Page 10-3.)

NOTE

Mine Counters M12 and M13 are removed the same way. Steps 1 and 2 show Mine Counter M13. If you replace Mine Counter M12 also, you must increase the mine counter parts listed in Initial Setup.

1. UNSOLDER LEADS AT MINE COUNTER M13. (SEE TM 55-1500-323-25.)
   - Tag and mark leads.
   - Unsolder lead (1) at Mine Counter M13 (2). (See TM 55-1500-323-25.)
   - Repeat above unsoldering step for other leads.



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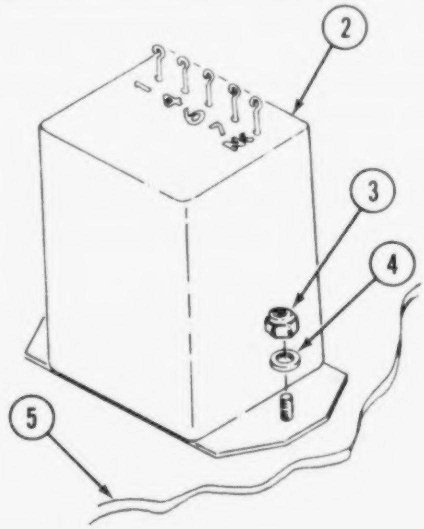
2. REMOVE MINE COUNTER M13 FROM BACK PANEL.
   - Remove two self-locking nuts (3) washers (4), and Mine Counter M13 (2) from back panel (5). Use 11/32 inch socket and speeder handle. Discard self-locking nuts.



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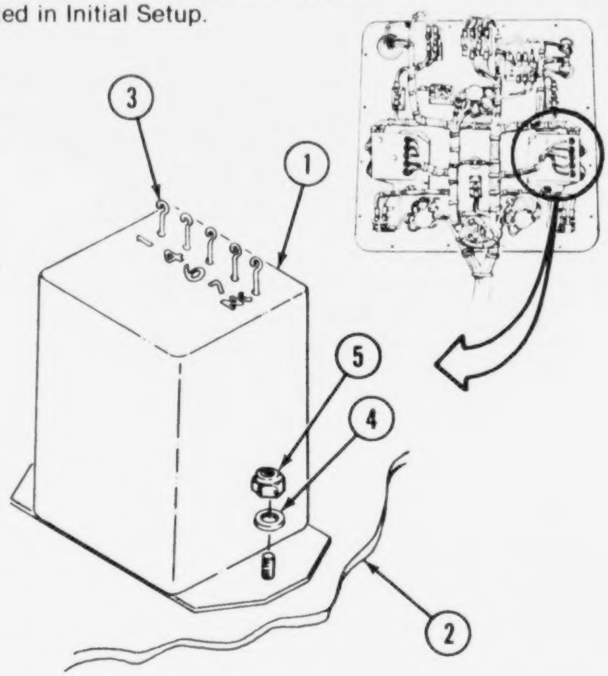
10-5 OPERATOR'S CONTROL PANEL ASSEMBLY — Continued

I. MINE COUNTERS INSTALLATION

NOTE

Mine Counters M12 and M13 are installed the same way. Steps 1 and 2 show Mine Counter M13. If you replace Mine Counter M12 also, you must increase the mine counter parts listed in Initial Setup.

1. INSTALL MINE COUNTER M13 ON BACK PANEL.
   - Position Mine Counter M13 (1) on back panel (2) with numbered terminals (3) on right side.
   - Install Mine Counter M13 (1), two washers (4), and new self-locking nuts (5) on back panel (2). Use 11/32 inch socket and speeder handle.



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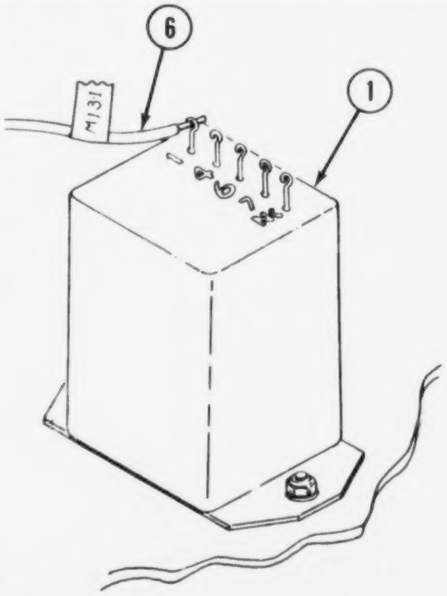
2. SOLDER LEADS AT MINE COUNTER M13. (SEE TM 55-1500-323-25.)
   - Solder lead (6) at Mine Counter M13 (1). (See TM 55-1500-323-25.)
   - Repeat above soldering step for other leads.
   - Remove tags from leads.

3. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-3.)

4. PERFORM OPERATOR CONTROL BOX TEST (OCBT). (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-18.)



J. INDICATOR LIGHT BASE REMOVAL

NOTE

PRELIMINARY PROCEDURE:
Remove Operator's Control Panel Assembly And Gasket. (See Operator Control Box, Page 10-3.)

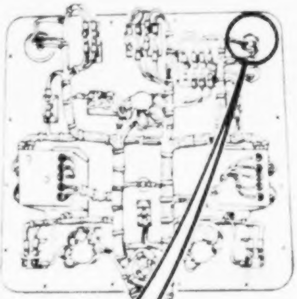
NOTE

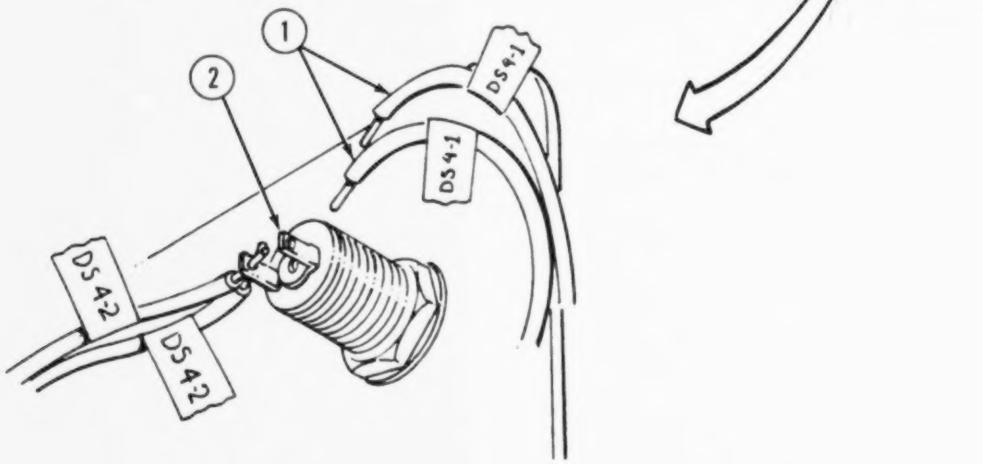
Indicator Light Bases DS1 thru DS7 are removed the same way. Steps 1 and 2 show Indicator Light Base DS4. If you replace more than one light base, you must increase the light base parts listed in Initial Setup.

• • • •

Indicator light base terminals are designated 1 and 2. Terminal 1 is center terminal.

1. UNSOLDER LEADS AT INDICATOR LIGHT BASE DS4. (SEE TM 55-1500-323-25.)
   - Tag and mark leads.
   - Unsolder leads (1) at Light Base DS4 Center Terminal 1 (2). (See TM 55-1500-323-25.)
   - Repeat above unsoldering step for other leads.





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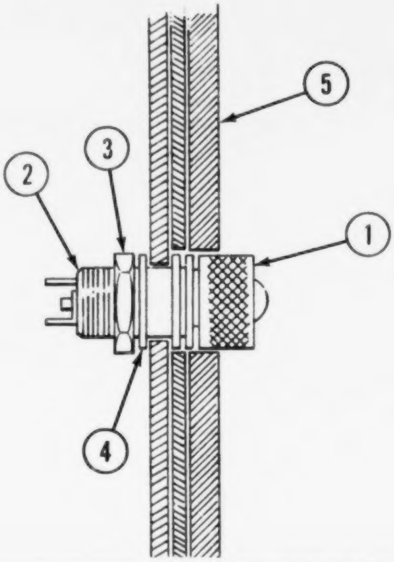
J. INDICATOR LIGHT BASE REMOVAL — Continued

2. REMOVE INDICATOR LIGHT BASE DS4 FROM PANEL ASSEMBLY.
   - Turn lens cap (1) to left, and remove from light base (2).
   - Remove nut (3), lock washer (4), and light base (2) from panel assembly (5). Use 9/16 inch open end wrench. Discard lock washer.

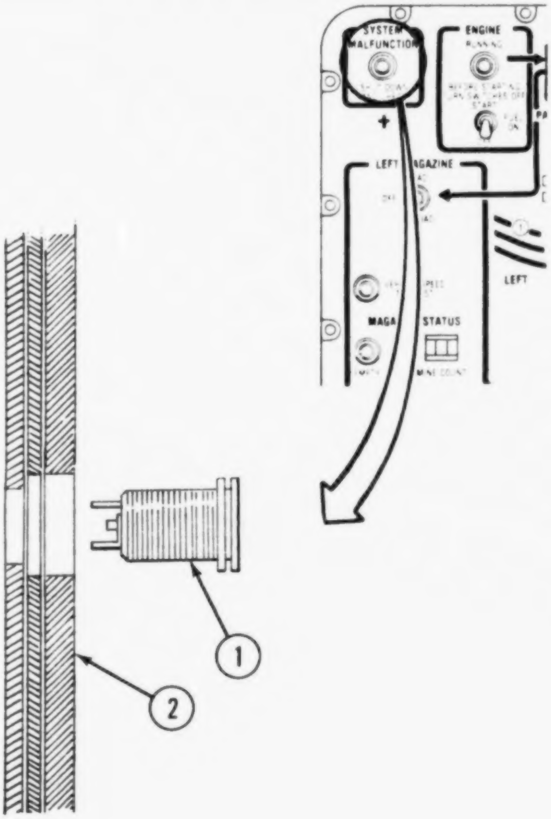


K. INDICATOR LIGHT BASE INSTALLATION

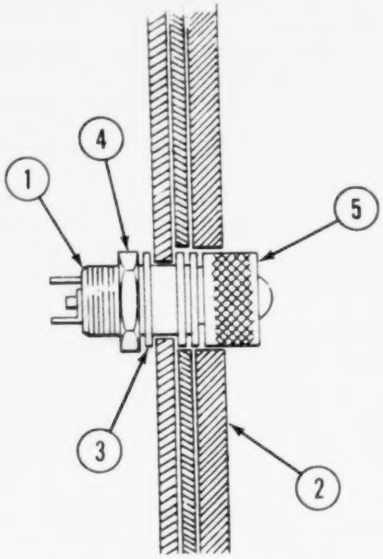
NOTE

Indicator Light Bases DS1 thru DS7 are installed the same way. Steps 1 and 2 show Indicator Light Base DS4. If you replace more than one light base, you must increase the light base parts listed in Initial Setup.

1. INSTALL INDICATOR LIGHT BASE DS4 IN PANEL ASSEMBLY.
   - Insert light base (1) through panel assembly (2) from front of panel assembly.



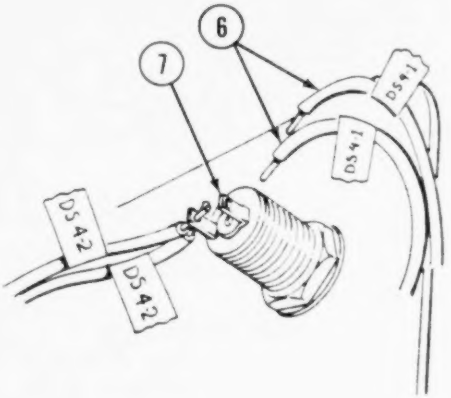
- Install light base (1), new lock washer (3), and nut (4) on panel assembly (2). Use 9/16 inch open end wrench.
- Install lens cap (5) on light base (1).



NOTE

Indicator light base terminals are designated 1 and 2. Terminal 1 is center terminal.

2. SOLDER LEADS AT INDICATOR LIGHT BASE DS4. (SEE TM 55-1500-323-25.)
   - Solder leads (6) at Light Base DS4 Center Terminal 1 (7). (See TM 55-1500-323-25.)
   - Repeat above soldering step for other leads.
   - Remove tags from leads.



3. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-3.)
4. PERFORM OPERATOR CONTROL BOX TEST (OCBT). (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-18.)

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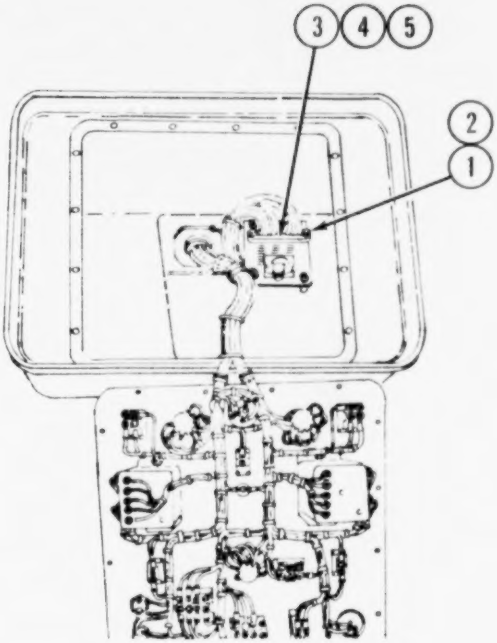
10-5 OPERATOR'S CONTROL PANEL ASSEMBLY — Continued

L. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS REMOVAL



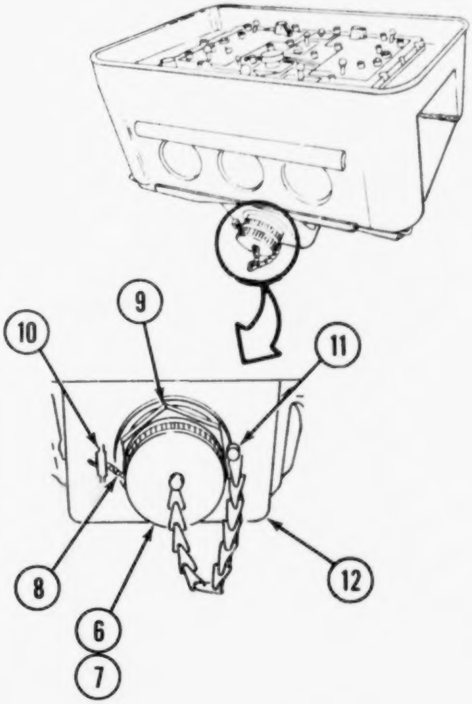
NOTE

PRELIMINARY PROCEDURE:
Remove Operator's Control Panel Assembly And Gasket. (See Operator Control Box, Page 10-3.)

1. DISCONNECT CONNECTOR P3 FROM RECEPTACLE J3.
   - Remove two nuts (1) and lock washers (2) from P3/J3 connection (3). Use 3/16 inch handled socket wrench. Discard lock washers.
   - Disconnect Connector P3 (4) from Receptacle J3 (5).

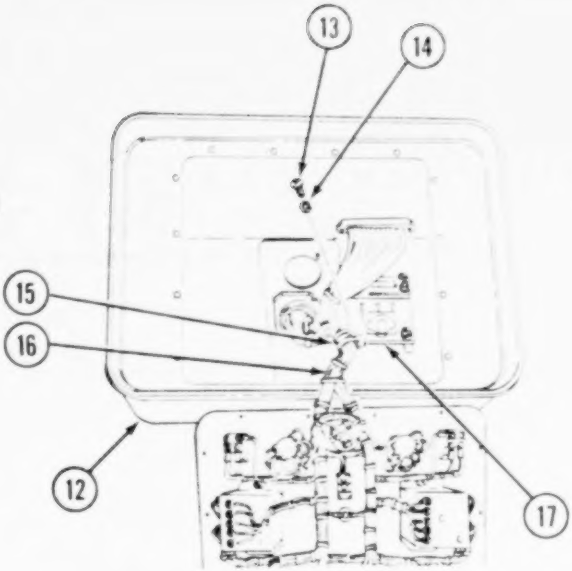
WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.



2. REMOVE RECEPTACLE J5 FROM OPERATOR CONTROL BOX.
   - Turn protective cap (6) to left, and remove from Receptacle J5 (7).
   - Cut and remove safety wire (8) from Receptacle J5 jam nut (9) and lug (10). Use diagonal cutting pliers. Discard safety wire.
   - Remove Receptacle J5 jam nut (9) and lanyard ring (11) from Receptacle J5 (7). Use 15 inch adjustable wrench.
   - Remove Receptacle J5 (7) from operator control box (12).

3. REMOVE CLAMP WITH OPERATOR'S CONTROL PANEL WIRING HARNESS FROM OPERATOR CONTROL BOX.
   - Remove screw (13), lock washer (14), and clamp (15) with wiring harness (16) from diode board (17). Use No. 2 cross tip screwdriver. Discard lock washer.
   - Remove clamp (15) with wiring harness (16) from operator control box (12).



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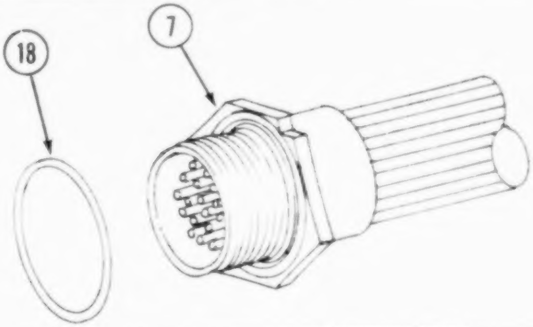
4. REMOVE PREFORMED PACKING (18) FROM RECEPTACLE J5 (7). DISCARD PREFORMED PACKING.



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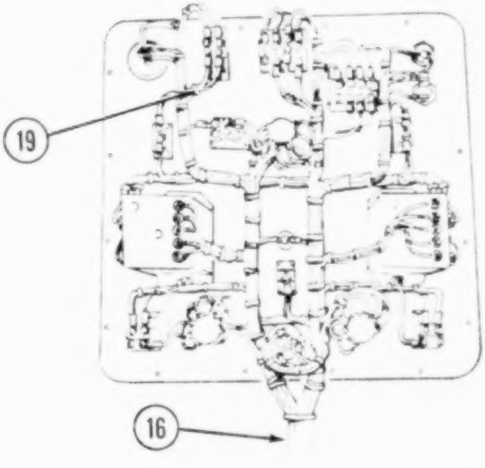
5. CUT AND REMOVE CABLE TIES FROM WIRING HARNESS.
   - Cut and remove cable ties (19) from wiring harness (16). Use diagonal cutting pliers. Discard cable ties.



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L. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS REMOVAL — Continued

NOTE

The following are designations for operator's control panel assembly toggle switches:

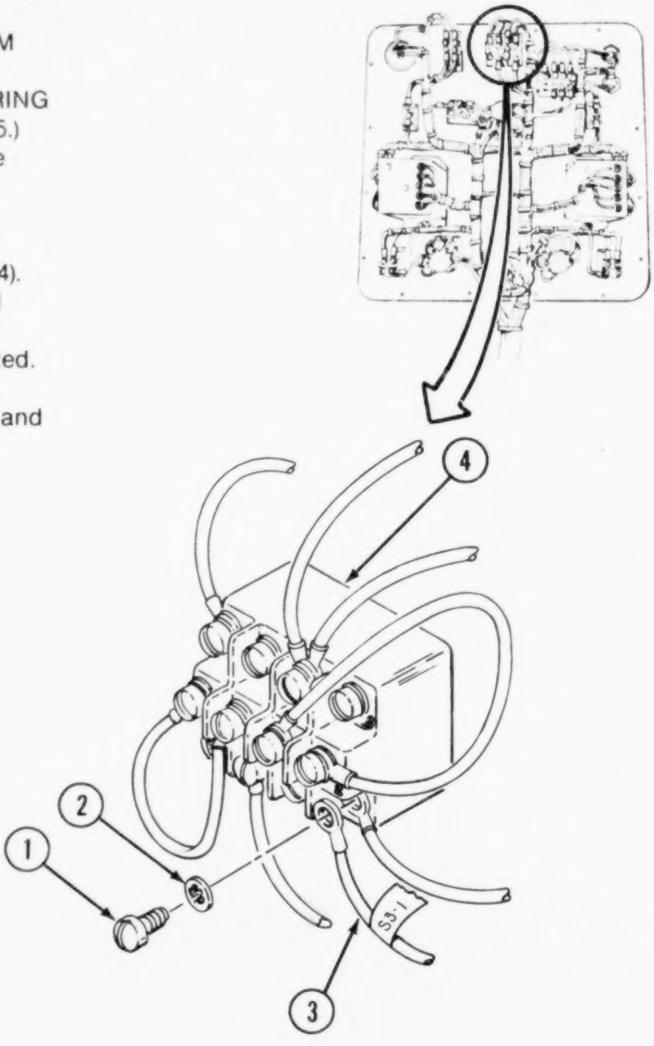
S1
S2
S3
S4
S6
S7
S8
S9
S11
S13

These designations are placarded on rear of back panel.

• • • •

Wiring harness leads are removed from toggle switches and Connector/Receptacle J50 the same way. Step 6 shows Toggle Switch S3. If you remove leads from more than J50 or one switch, you must increase parts listed for them in Initial Setup.

6. REMOVE WIRING HARNESS LEADS FROM TOGGLE SWITCHES AND CONNECTOR/RECEPTACLE J50. (SEE WIRING HARNESS DESTINATION LIST, PAGE 10-45.)
   - Tag and mark wiring harness leads. (See Wiring Harness Destination List, Page 10-45.)
   - Remove screw (1), lock washer (2), and wiring harness lead (3) from Switch S3 (4). Use 1/4 inch flat tip screwdriver. Discard lock washers.
   - Reconnect any jumper leads disconnected.
   - Repeat above removal steps for wiring harness leads on other toggle switches and Receptacle J50.



WIRING HARNESS DESTINATION LIST

Bundle A				
Connector/ Receptacle Contact		To Terminal Destination	Type Connection	
J5	P3		Terminal Lug	Solder
E	. . .	S2-1	X	. . .
F	. . .	S3-1	X	. . .
G	. . .	DS3-2	. . .	X
H	. . .	J50-2	X	. . .
L	. . .	S1-5	X	. . .
M	. . .	S1-8	X	. . .
N	. . .	DS3-1	. . .	X
P	. . .	DS4-1	. . .	X
S	. . .	DS6-1	. . .	X
Z	. . .	S2-5	X	. . .
b	. . .	S10-1R	. . .	X
c	. . .	S7-3	X	. . .
d	. . .	S7-1	X	. . .
e	. . .	S1-7	X	. . .
j	. . .	S5-5c	. . .	X
n	. . .	S1-1	X	. . .
m	. . .	Spare	. . .	. . .
. . .	3	J50-1	X	. . .
. . .	9	DS1-1	X	. . .
. . .	11	S7-2	X	. . .
. . .	14	DS6-1	. . .	X
. . .	15	DS3-1	. . .	X
. . .	18	DS4-1	. . .	X
. . .	24	S10-Com R	. . .	X
. . .	26	S10-Com C	. . .	X
. . .	28	S10-Com F	. . .	X
. . .	32	S2-5	X	. . .
. . .	34	S8-4	X	. . .
. . .	35	S5-3C	. . .	X
. . .	36	S5-Com R	. . .	X
. . .	38	M13-4	. . .	X
. . .	40	M13-1	. . .	X
. . .	46	M13-7	. . .	X
. . .	48	S13-4	X	. . .
. . .	51	M13-7	. . .	X

GO TO NEXT PAGE

L. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS REMOVAL — Continued

WIRING HARNESS DESTINATION LIST — Continued

Bundle B				
Connector/ Receptacle Contact		To Terminal Destination	Type Connection	
J5	P3		Terminal Lug	Solder
J	...	S2-2	X	...
K	...	S5-6R	...	X
R	...	DS5-1	...	X
T	...	DS7-1	...	X
V	...	S9-3	X	...
W	...	S9-1	X	...
X	...	S12-1R	...	X
a	...	S5-4F	...	X
h	...	S2-3	X	...
g	...	Spare	...	...
k	...	Spare	...	...
...	2	R1-2	X	...
...	4	R1-2	X	...
...	5	DS2-1	...	X
...	6	S13-5	X	...
...	7	D13-5	X	...
...	12	DS7-1	X	...
...	13	S13-2	X	...
...	16	DS5-1	...	X
...	17	S12-Com F	...	X
...	19	S12-Com C	...	X
...	21	S12-Com R	...	X
...	23	S11-5	X	...
...	25	S5-2F	...	X
...	27	S4-4	X	...
...	29	S9-2	X	...
...	30	S6-2	X	...
...	31	S11-1	X	...
...	33	S5-6R	...	X
...	37	M12-4	...	X
...	39	M12-1	...	X
...	41	S4-6	X	...
...	45	M12-7	...	X
...	49	DS2-2	...	X
...	50	S2-4	X	...

NOTE

Rotary switch terminals are identified by switch number, terminal number, and terminal level. Each rotary switch has three terminal levels. Each level has a ring of terminals around it. Terminal level nearest the panel is the front (F) level. Terminal level nearest the placarded end plate is the rear (R) level. The level between the front and rear level is the center (C) level. Terminal numbers correspond to the numbers 1 thru 12 placarded on the end plate. For example, to identify a lead connected to Rotary Switch S5, Terminal 5, center level, tag and mark lead "S5-5C."

• • • •

There are three long terminals, one at each level, between placarded numbers 12 and 1. These are common terminals. They are identified as common front (Com F), common center (Com C), and common rear (Com R) in the destination list.

• • • •

The following are designations for operator's control panel assembly rotary switches:

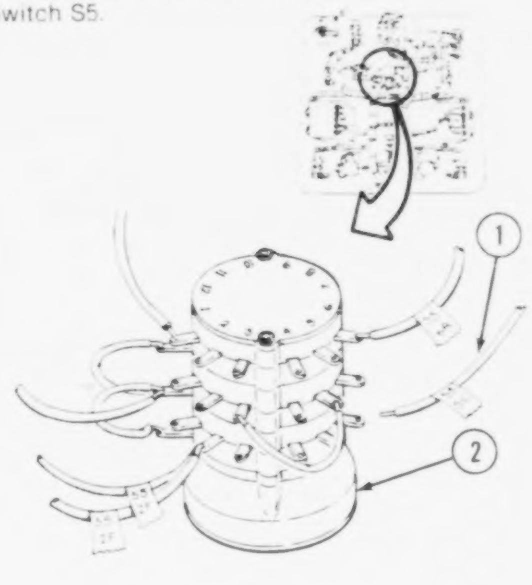
S5 S10 S12

These designations are placarded on rear of back panel.

• • • •

Wiring harness leads are removed from rotary switches and Potentiometer R1 the same way. Step 7 shows Rotary Switch S5.

7. UNSOLDER WIRING HARNESS LEADS AT ROTARY SWITCHES AND POTENTIOMETER R1. (SEE TM 55-1500-323-25 AND WIRING HARNESS DESTINATION LIST, PAGE 10-45.)
   - Tag and mark leads. (See Wiring Harness Destination List, Page 10-45.)
   - Unsolder lead (1) at Switch S5 (2). (See TM 55-1500-323-25.)
   - Repeat above unsoldering step for other leads of wiring harness at Switch S5 (2).
   - Repeat above unsoldering steps for wiring harness leads at other rotary switches and Potentiometer R1.



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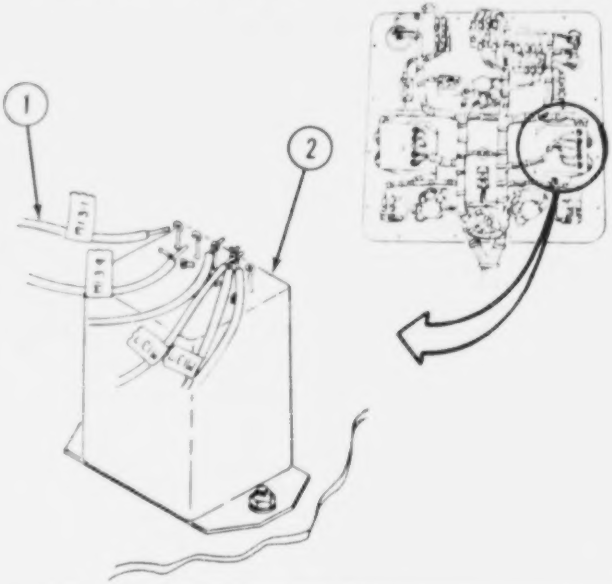
L. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS REMOVAL — Continued

NOTE

Wiring harness leads are removed from Mine Counters M12 and M13 the same way. Step 8 shows Mine Counter M13.

8. UNSOLDER WIRING HARNESS LEADS AT MINE COUNTERS M12 AND M13. (SEE TM 55-1500-323-25 AND WIRING HARNESS DESTINATION LIST, PAGE 10-45.)
   - Tag and mark leads. (See Wiring Harness Destination List, Page 10-45.)
   - Unsolder wiring harness lead (1) at Mine Counter M13 (2). (See TM 55-1500-323-25.)
   - Repeat above unsoldering step for other leads of wiring harness at Mine Counter M13 (2).
   - Repeat above unsoldering steps for wiring harness leads at other mine counter.



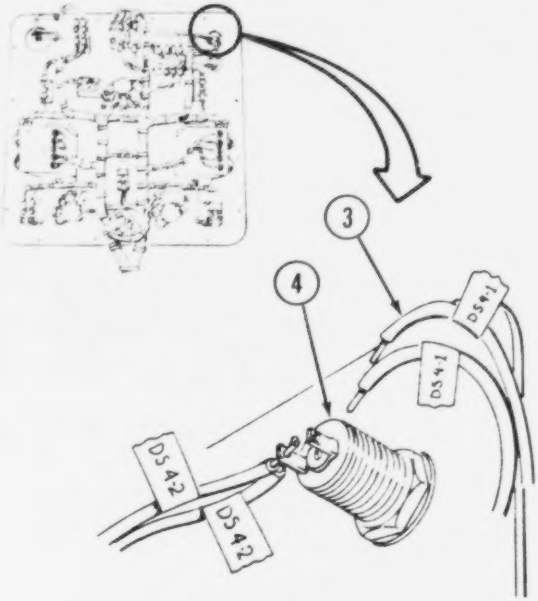
NOTE

Wiring harness leads are removed from Indicator Light Bases DS1 thru DS7 the same way. Step 9 shows Indicator Light Base DS4.

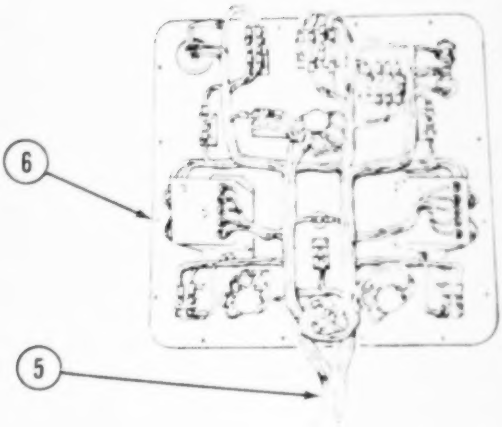
• • • •

Indicator light base terminals are designated 1 and 2. Terminal 1 is the center terminal.

9. UNSOLDER WIRING HARNESS LEADS AT INDICATOR LIGHT BASES DS1 THRU DS7. (SEE TM 55-1500-323-25 AND WIRING HARNESS DESTINATION LIST, PAGE 10-45.)
   - Tag and mark leads. (See Wiring Harness Destination List, Page 10-45.)
   - Unsolder two wiring harness leads (3) at Light Base DS4 (4). (See TM 55-1500-323-25.)
   - Repeat above unsoldering steps for wiring harness leads at other indicator light bases.



10. REMOVE WIRING HARNESS (5) FROM OPERATOR'S CONTROL PANEL ASSEMBLY (6).

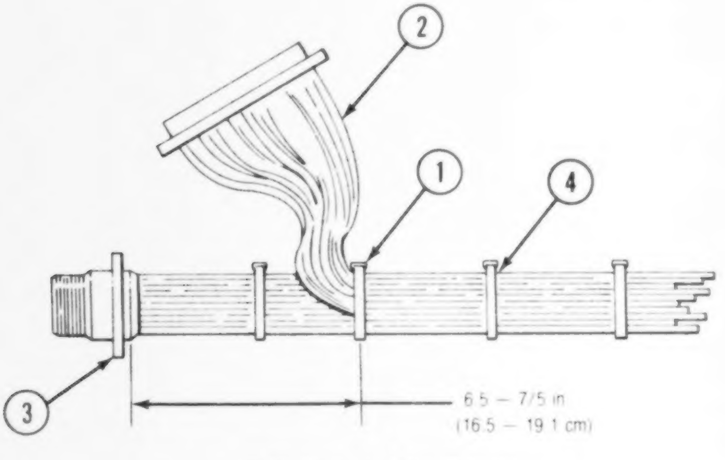


M. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS INSTALLATION

NOTE

One cable tie must be installed 6.5 — 7.5 in. (16.5 — 19.1 cm) from Receptacle J5.

1. INSTALL NEW CABLE TIES ON WIRING HARNESS.
   - Install new cable tie (1) on wiring harness (2), 6.5 — 7.5 in. (16.5 — 19.1 cm) from Receptacle J5 (3). (See following Cable Tie Installation Diagram.) Use measuring tape and round nose pliers.
   - Install other cable ties (4) on wiring harness (2) as needed.



Cable Tie Installation Diagram

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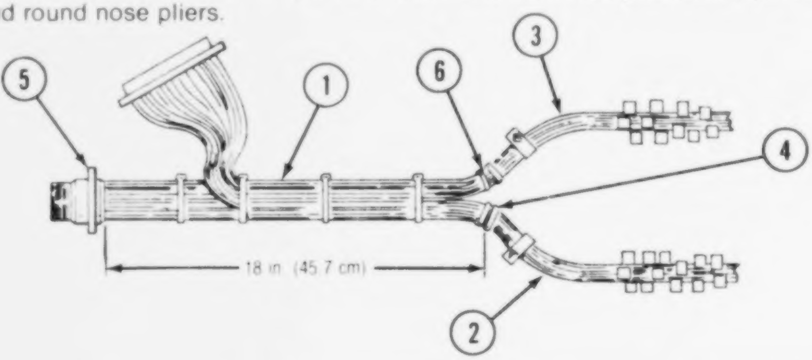
M. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS INSTALLATION — Continued

NOTE

If installing old wiring harness, go to step 3.

2. IDENTIFY, SEPARATE, AND BUNDLE NEW WIRING HARNESS LEADS.
   - Perform continuity check of wiring harness (1), to identify leads. Use multimeter. (See Wiring Harness Destination List Page 10-45.)
   - Tag and mark leads.
   - Tag, mark, and separate Bundle "A" (2) and Bundle "B" (3).
   - Install two new cable ties (4) on Bundle "A" (2), 18 in. (45.7 cm) from Receptacle J5 (5). Use measuring tape and round nose pliers.
   - Install two new cable ties (6) on Bundle "B" (3), 18 in. (45.7 cm) from Receptacle J5 (5). Use measuring tape and round nose pliers.



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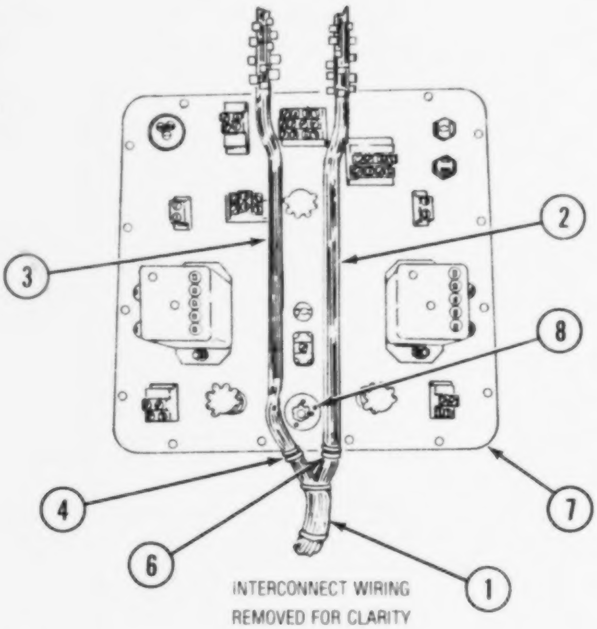
3. POSITION WIRING HARNESS ON OPERATOR'S CONTROL PANEL ASSEMBLY.
   - Position wiring harness (1) on panel assembly (7) with Switch S2 (8) between Bundle "A" (2) and Bundle "B" (3).
   - Adjust wiring harness (1) so two cable ties (4) and two cable ties (6) are alined with edge of panel assembly (7).



WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

4. CUT WIRING HARNESS LEADS TO NEEDED LENGTH.
   - Route each lead to destination terminals. (See Wiring Harness Destination List, Page 10-45.)
   - Cut wires to length needed for installation. Use diagonal cutting pliers.

NOTE

The following are designations for operator's control panel assembly toggle switches:

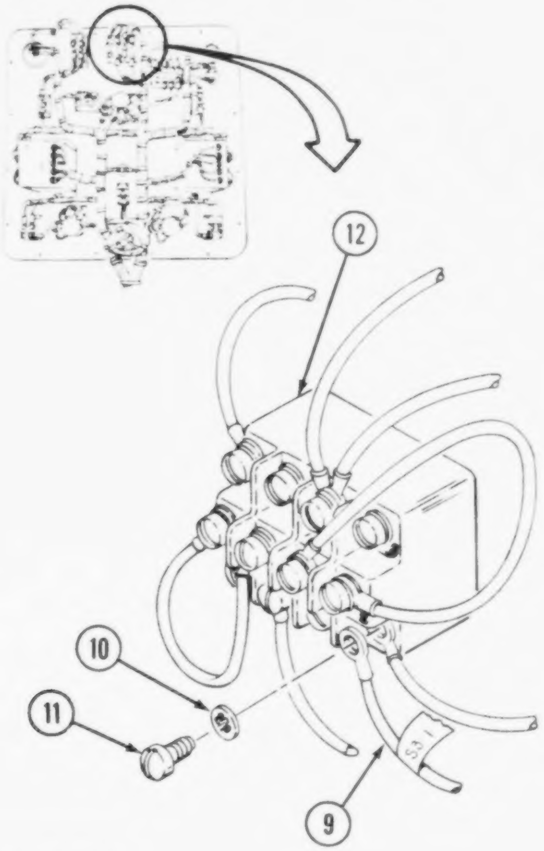
S1 S4 S8 S13
S2 S6 S9
S3 S7 S11

These designations are placarded on rear of back panel.

• • • •

Wiring harness leads are installed on toggle switches and Connector/Receptacle J50 the same way. Step 5 shows Toggle Switch S3. If you install leads on more than J50 or one switch, you must increase parts listed for them in Initial Setup.

5. INSTALL WIRING HARNESS LEADS ON TOGGLE SWITCHES AND CONNECTOR/RECEPTACLE J50. (SEE WIRING HARNESS DESTINATION LIST, PAGE 10-45.)
   - Install lead (9), new lock washer (10), and screw (11) on Switch S3 (12). (See Wiring Harness Destination List, Page 10-45.) Use 1/4 inch flat tip screwdriver.
   - Repeat above installation steps for other wiring harness leads on toggle switches and Connector/ Receptacle J50.
   - Remove tags from leads.



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M. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS INSTALLATION — Continued

NOTE

Rotary switch terminals are identified by switch number, terminal number, and terminal level. Each rotary switch has three terminal levels. Each level has a ring of terminals around it. Terminal level nearest the panel is the front (F) level. Terminal level nearest the placarded end plate is the rear (R) level. The level between the front and rear level is the center (C) level. Terminal numbers correspond to the numbers 1 thru 12 placarded on the end plate. For example, a wire marked S5-5C would connect to Rotary Switch S5 at Terminal 5 on center level.

• • • •

There are three long terminals, one at each level, between placarded numbers 12 and 1. These are common terminals. They are identified as common front (Com F), common center (Com C), and common rear (Com R) in the destination list.

• • • •

The following are designations for operator's control panel assembly rotary switches:

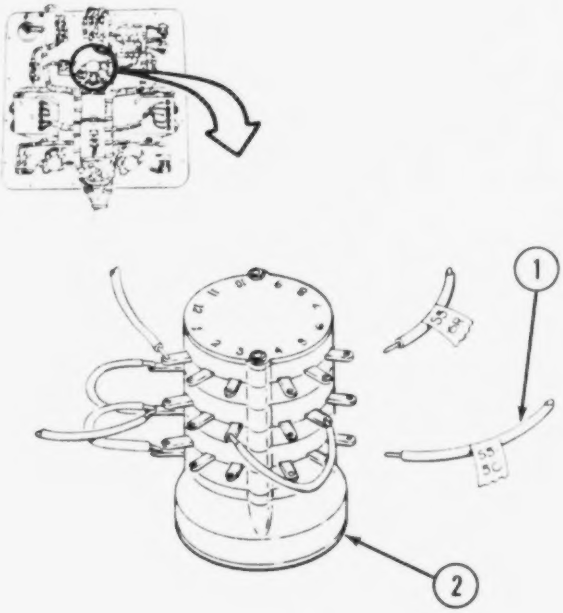
S5 S10 S12

These designations are placarded on rear of back panel.

• • • •

Wiring harness leads are installed on rotary switches and Potentiometer R1 the same way. Step 7 shows Rotary Switch S5.

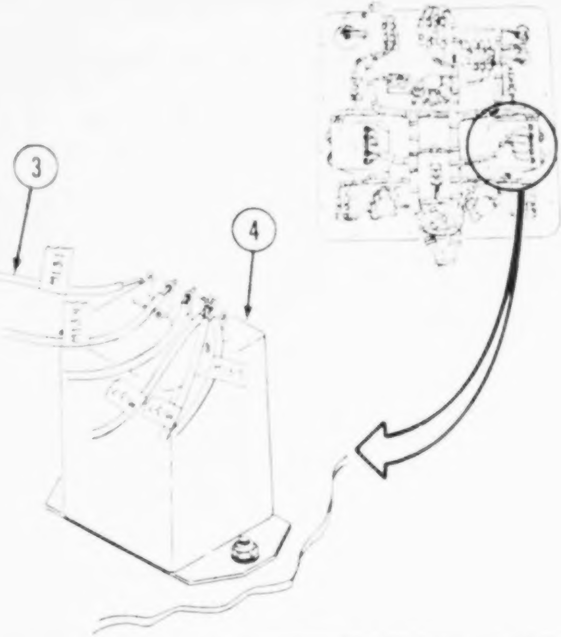
6. SOLDER WIRING HARNESS LEADS AT ROTARY SWITCHES AND POTENTIOMETER R1. (SEE TM 55-1500-323-25 AND WIRING HARNESS DESTINATION LIST, PAGE 10-45.)
   - Solder lead (1) at Switch S5 (2). (See TM 55-1500-323-25 and Wiring Harness Destination List, Page 10-45.)
   - Repeat above soldering step for other leads of wiring harness at Switch S5 (2).
   - Repeat above soldering steps for wiring harness leads at other rotary switches and Potentiometer R1.
   - Remove tags from leads.



NOTE

Wiring harness leads are installed on Mine Counters M12 and M13 the same way. Step 7 shows Mine Counter M13.

7. SOLDER WIRING HARNESS LEADS AT MINE COUNTERS M12 AND M13. (SEE TM 55-1500-323-25 AND WIRING HARNESS DESTINATION LIST, PAGE 10-45.)
   - Solder lead (3) at Mine Counter M13 (4). (See TM 55-1500-323-25 and Wiring Harness Destination List, Page 10-45.)
   - Repeat above soldering step for other leads of wiring harness at Mine Counter M13 (4).
   - Repeat above soldering steps for wiring harness leads at other mine counter.
   - Remove tags from leads.



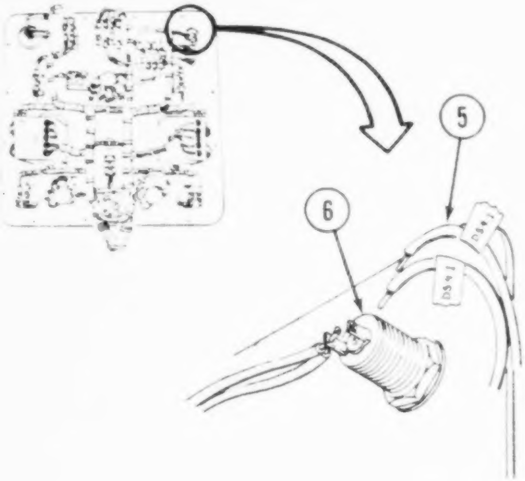
NOTE

Wiring harness leads are installed on Indicator Light Bases DS1 thru DS7 the same way. Step 8 shows Light Base DS4.

• • • •

Indicator light base terminals are designated 1 and 2. Terminal 1 is the center terminal.

8. SOLDER WIRING HARNESS LEADS AT INDICATOR LIGHT BASES DS1 THRU DS7. (SEE TM 55-1500-323-25 AND WIRING HARNESS DESTINATION LIST, PAGE 10-45.)
   - Solder two leads (5) at Light Base DS4 (6). (See TM 55-1500-323-25 and Wiring Harness Destination List, Page 10-45.)
   - Repeat above soldering step for wiring harness leads at other light bases.
   - Remove tags from leads.



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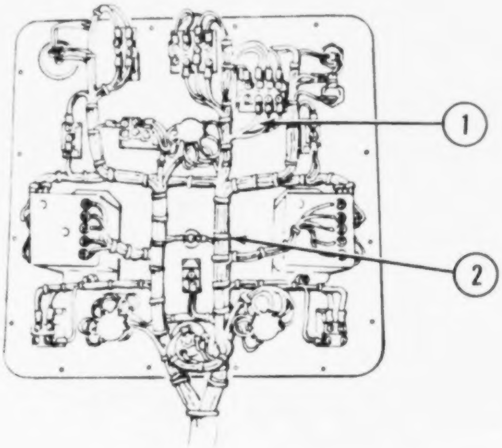
M. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS INSTALLATION — Continued

9. INSTALL NEW CABLE TIES ON CONTROL PANEL LEADS.
   - Bundle all control panel leads (1), and install new cable ties (2). Use round nose pliers.



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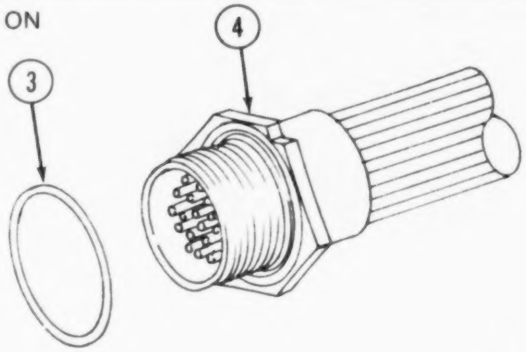
10. INSTALL NEW PREFORMED PACKING (3) ON RECEPTACLE J5 (4).



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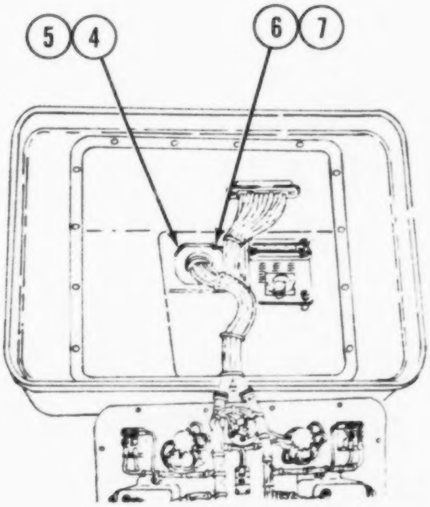
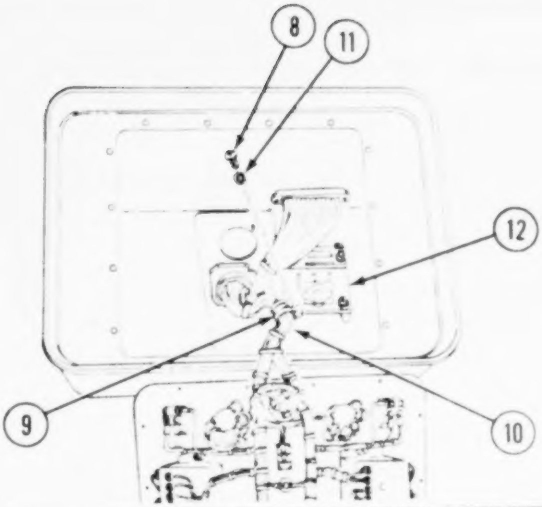
11. INSERT RECEPTACLE J5 (4) THROUGH MOUNTING HOLE (5), WITH NOTCH (6) ENGAGING PIN (7).



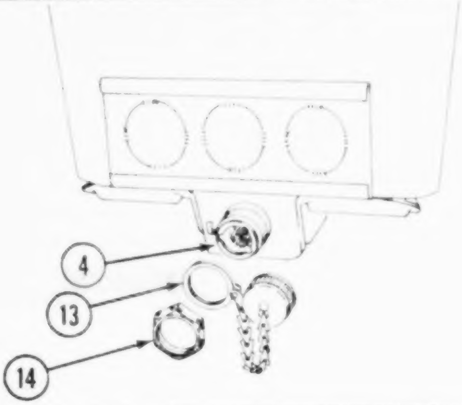
12. INSTALL CLAMP WITH OPERATOR'S CONTROL PANEL WIRING HARNESS ON OPERATOR CONTROL BOX.
    - Apply sealing compound to threads of screw (8).
    - Install clamp (9) with wiring harness (10), new lock washer (11), and screw (8) on diode board (12). Use No. 2 cross tip screwdriver.



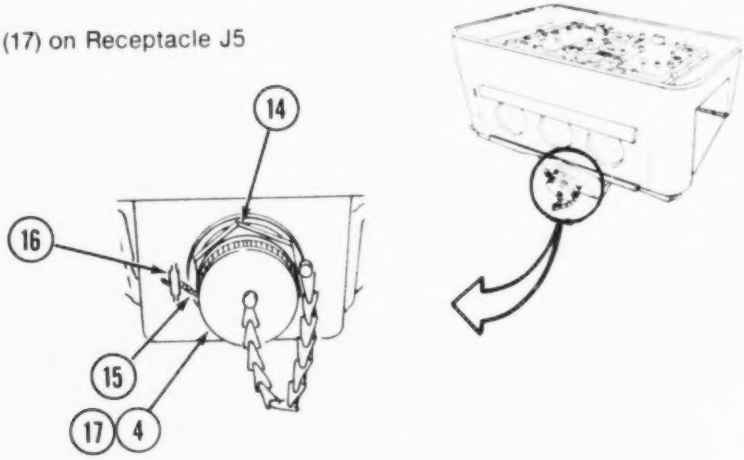
WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

13. INSTALL RECEPTACLE J5 IN OPERATOR CONTROL BOX.
    - Install lanyard ring (13) and receptacle jam nut (14) on Receptacle J5 (4). Use 15 inch adjustable wrench.



- Install new safety wire (15) from jam nut (14) to operator control box lug (16). Use slip joint pliers.
- Install protective cap (17) on Receptacle J5 (4).



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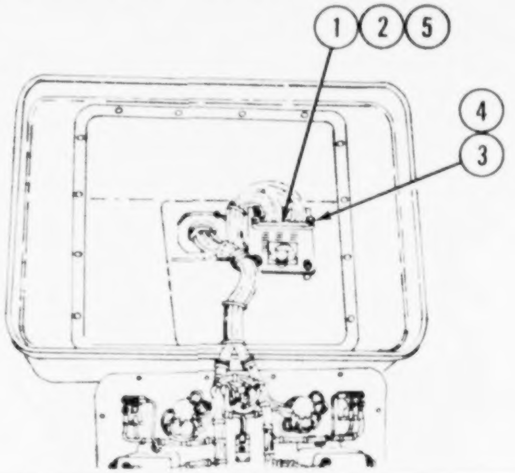
M. OPERATOR'S CONTROL PANEL ASSEMBLY WIRING HARNESS INSTALLATION — Continued



14. CONNECT CONNECTOR P3 TO RECEPTACLE J3.
    - Connect Connector P3 (1) to Receptacle J3 (2).
    - Install two new lock washers (3) and nuts (4) on P3/J3 connection (5). Use 3/16 inch handled socket wrench.

15. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-3.)

16. PERFORM OPERATOR CONTROL BOX TEST (OCBT). (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-18.)

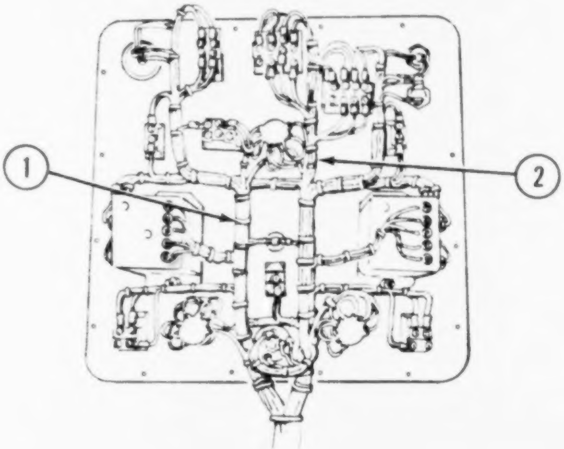
N. OPERATOR'S CONTROL PANEL ASSEMBLY INTERCONNECT WIRING REMOVAL

NOTE

PRELIMINARY PROCEDURE:
Remove Operator's Control Panel Assembly And Gasket. (See Operator Control Box, Page 10-3.)

1. DISCONNECT CONNECTOR P3 FROM RECEPTACLE J3. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-42.)

2. REMOVE RECEPTACLE J5 FROM OPERATOR CONTROL BOX. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-42.)



3. REMOVE CLAMP WITH OPERATOR'S CONTROL PANEL WIRING HARNESS FROM OPERATOR CONTROL BOX. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-43.)

4. REMOVE PREFORMED PACKING FROM RECEPTACLE J5. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-43.)

5. CUT AND REMOVE CABLE TIES FROM OPERATOR'S CONTROL PANEL WIRING.
    - Cut and remove cable ties (1) from control panel wiring (2). Use diagonal cutting pliers. Discard cable ties.

NOTE

All operator's control panel wiring connected between components mounted on operator's control panel is interconnect wiring.

• • • •

The following are designations for operator's control panel assembly toggle switches:

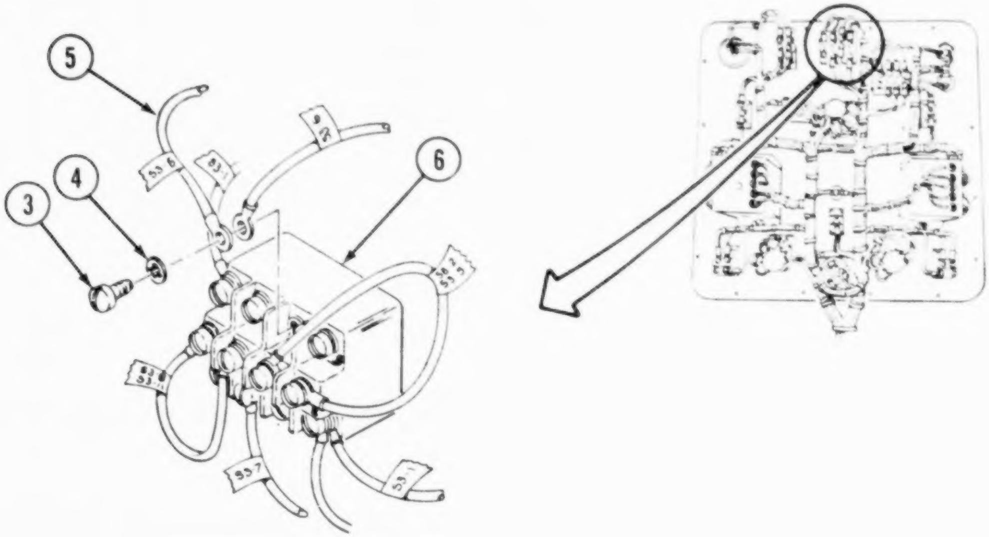
S1
S2
S3
S4
S6
S7
S8
S9
S11
S13

These designations are placarded on rear of back panel.

• • • •

Interconnect wiring leads are removed from toggle switches and Connector/Receptacle J50 the same way. This procedure shows Toggle Switch S3. If you remove leads from more than J50 or one switch, you must increase parts listed for them in Initial Setup.

6. REMOVE INTERCONNECT WIRING LEADS FROM TOGGLE SWITCHES AND CONNECTOR/ RECEPTACLE J50. (SEE INTERCONNECT WIRING DESTINATION LIST, PAGE 10-58.)
   - Tag and mark interconnect leads. (See Interconnect Wiring Destination List, Page 10-58.)
   - Remove screw (3), lock washer (4), and interconnect lead (5) from Switch S3 (6). Use 1/4 inch flat tip screwdriver. Discard lock washer.
   - Repeat above removal step for other leads of interconnect wiring on Switch S3 (6).
   - Repeat above removal steps for interconnect leads on other toggle switches and Connector/Receptacle J50.



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N. OPERATOR'S CONTROL PANEL INTERCONNECT WIRING REMOVAL — Continued

INTERCONNECT WIRING DESTINATION LIST

Column 1		Column 2	Column 3	Column 4	
Type Connection		From Terminal Location	To Terminal Destination	Type Connection	
Terminal Lug	Solder			Terminal Lug	Solder
X	...	S1-8	S13-1	X	...
X	...	S1-5	S13-4	X	...
X	...	S1-2	S3-7	X	...
X	...	S1-7	S3-12	X	...
X	...	S1-4	S3-5	X	...
X	...	S3-5	S3-2	X	...
X	...	S3-8	S3-11	X	...
X	...	S3-1	S11-5	X	...
X	...	S2-1	S3-6	X	...
X	...	S3-6	S8-5	X	...
X	...	S8-5	S11-2	X	...
X	...	S11-2	S5-Com C	...	X
...	X	S5-Com C	S5-Com F	...	X
...	X	S5-Com C	S5-Com R	...	X
X	...	S2-4	DS7-2	...	X
...	X	DS7-2	DS6-2	...	X
...	X	DS6-2	DS5-2	...	X
...	X	DS5-2	DS4-2	...	X
...	X	DS4-2	DS3-2	...	X
X	...	S13-1	R1-1	...	X
...	X	R1-1	M12-7	...	X
...	X	M12-7	M13-7	...	X
X	...	J50-2	R1-3	...	X
...	X	R1-3	DS1-2	...	X
...	X	DS1-2	DS2-2	...	X
...	X	S5-4F	S5-3F	...	X
...	X	S5-3F	S5-2F	...	X
...	X	S5-3C	S5-5C	...	X
...	X	S5-2R	S5-6R	...	X
...	X	S5-1R	S4-5	X	...
X	...	S7-1	S10-2F	...	X
...	X	S10-2F	S10-4F	...	X
...	X	S10-4F	S10-6F	...	X
X	...	S7-3	S10-1C	...	X
...	X	S10-1C	S10-4C	...	X
...	X	S10-4C	S10-5C	...	X
...	X	S10-3R	S10-2R	...	X
...	X	S10-2R	S10-1R	...	X
X	...	S9-3	S12-2F	...	X
...	X	S12-2F	S12-4F	...	X
...	X	S12-4F	S12-6F	...	X

INTERCONNECT WIRING DESTINATION LIST — Continued

Column 1		Column 2	Column 3	Column 4	
Type Connection		From Terminal Location	To Terminal Destination	Type Connection	
Terminal Lug	Solder			Terminal Lug	Solder
X	. . .	S9-1	S12-1C	. . .	X
. . .	X	S12-1C	S12-4C	. . .	X
. . .	X	S12-4C	S12-5C	. . .	X
. . .	X	S12-1R	S12-2R	. . .	X
. . .	X	S12-2R	S12-3R	. . .	X
X	. . .	S8-2	S11-6	X	. . .
X	. . .	S8-3	S6-1	X	. . .
. . .	X	DS1-1	M13-6	. . .	X
. . .	X	DS2-1	M12-6	. . .	X

NOTE

Rotary switch terminals are identified by switch number, terminal number, and terminal level. Each rotary switch has three terminal levels. Each level has a ring of terminals around it. Terminal level nearest the panel is the front (F) level. Terminal level nearest the placarded end plate is the rear (R) level. The level between the front and rear level is the center (C) level. Terminal numbers correspond to the numbers 1 thru 12 placarded on the end plate. For example, a wire marked S5-5C would connect to Rotary Switch S5 at terminal number 5 on the center level.

• • • •

There are three long terminals, one at each level, between placarded numbers 12 and 1. These are common terminals and are identified as common front (Com F), common center (Com C), and common rear (Com R) in the destination list.

• • • •

The following are designations for operator's control panel assembly rotary switches:

S5 S10 S12

These designations are placarded on rear of back panel.

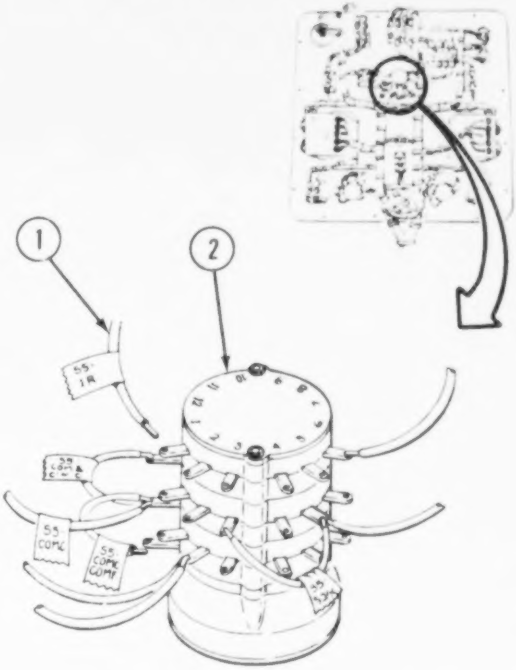
• • • •

Interconnect wiring leads are removed from rotary switches and Potentiometer R1 the same way. Step 7 shows Rotary Switch S5.

GO TO NEXT PAGE

N. OPERATOR'S CONTROL PANEL ASSEMBLY INTERCONNECT WIRING REMOVAL — Continued

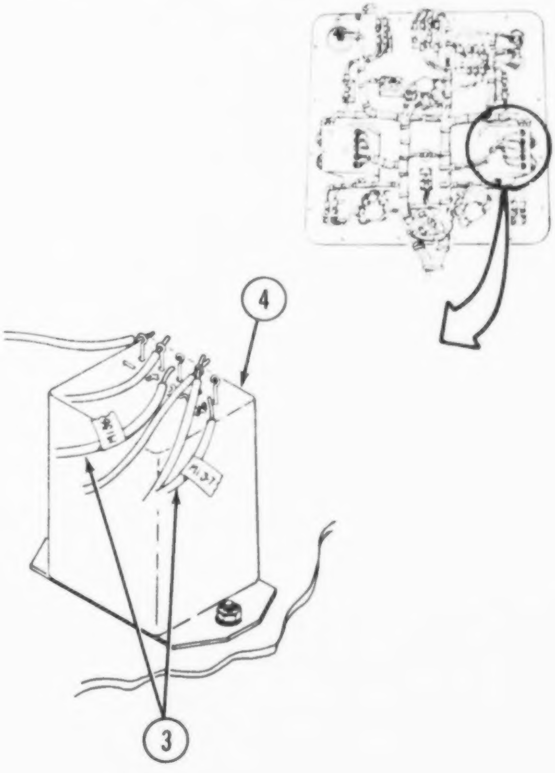
7. UNSOLDER INTERCONNECT WIRING LEADS AT ROTARY SWITCHES AND POTENTIOMETER R1. (SEE TM 55-1500-323-25 AND INTERCONNECT WIRING DESTINATION LIST, PAGE 10-58.)
   - Tag and mark interconnect leads. (See Interconnect Wiring Destination List, Page 10-58.)
   - Unsolder interconnect lead (1) at Switch S5 (2). (See TM 55-1500-323-25.)
   - Repeat above unsoldering step for other leads of interconnect wiring at Switch S5 (2).
   - Repeat above unsoldering steps for interconnect leads at other rotary switches and Potentiometer R1.



NOTE

Interconnect wiring leads are removed from Mine Counters M12 and M13 the same way. Step 8 shows Mine Counter M13.

8. UNSOLDER INTERCONNECT WIRING LEADS AT MINE COUNTERS M12 AND M13. (SEE TM 55-1500-323-25 AND INTERCONNECT WIRING DESTINATION LIST, PAGE 10-58.)
   - Tag and mark interconnect leads. (See Interconnect Wiring Destination List, Page 10-58.)
   - Unsolder interconnect leads (3) at Mine Counter M13 (4). (See TM 55-1500-323-25.)
   - Repeat above unsoldering step for interconnect leads at other mine counter.



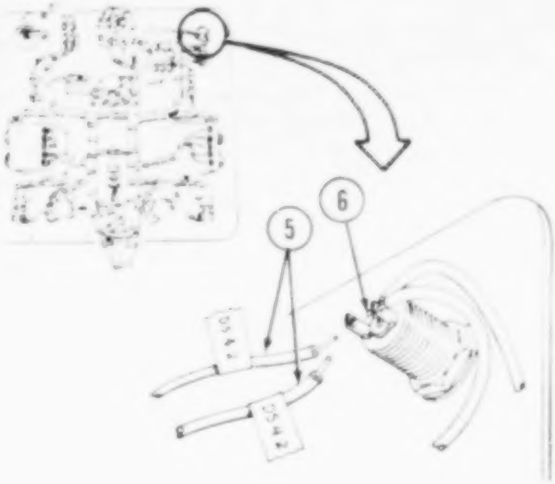
NOTE

Interconnect wiring leads are removed from Indicator Light Bases DS1 thru DS7 the same way. Step 9 shows Indicator Light Base DS4.

• • • •

Indicator light base terminals are designated 1 and 2. Terminal 1 is the center terminal.

9. UNSOLDER INTERCONNECT WIRING LEADS AT INDICATOR LIGHT BASES DS1 THRU DS7. (SEE TM 55-1500-323-25 AND INTERCONNECT WIRING DESTINATION LIST, PAGE 10-58.)
   - Tag and mark interconnect leads. (See Interconnect Wiring Destination List, Page 10-58.)
   - Unsolder interconnect leads (5) at Light Base DS4 (6). (See TM 55-1500-323-25.)
   - Repeat above unsoldering step for interconnect leads at other indicator light bases.



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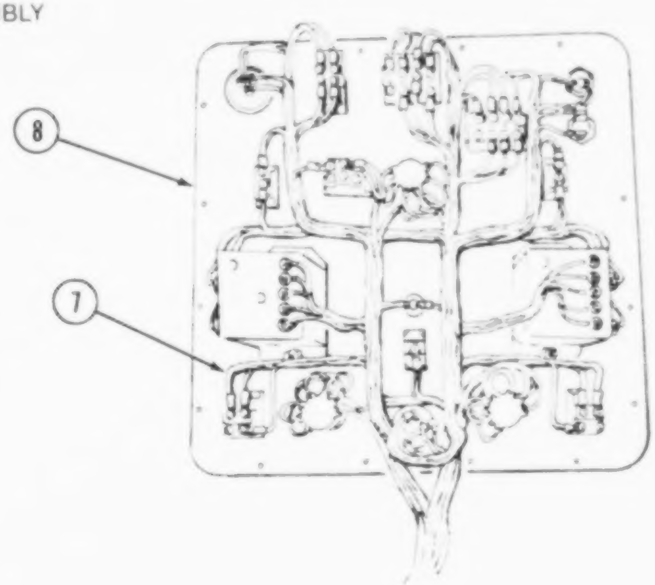
10. REMOVE INTERCONNECT WIRING (7) FROM OPERATOR'S CONTROL PANEL ASSEMBLY (8).



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O. OPERATOR'S CONTROL PANEL ASSEMBLY INTERCONNECT WIRING INSTALLATION

NOTE

Prepare interconnect wiring in sequence listed from left to right in Interconnect Wiring Destination List, Page 10-58.

1. PREPARE INTERCONNECT WIRING FOR INSTALLATION. (SEE TM 55-1500-323-25 AND INTERCONNECT WIRING DESTINATION LIST, PAGE 10-58.)
   - Prepare lead end for type connection shown in Column 1. (See TM 55-1500-323-25.)
   - Route lead from terminal location shown in Column 2 to destination terminal shown in Column 3.
   - Prepare lead end for type connection shown in Column 4. (See TM 55-1500-323-25.)
   - Tag and mark lead with "From" location, shown in Column 2, and "To" destination, shown in Column 3.

NOTE

The following are designations for operator's control panel assembly toggle switches:

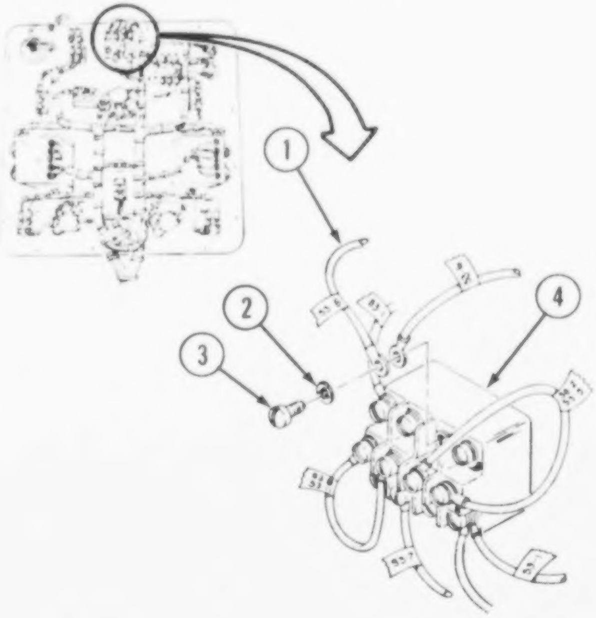
S1 S4 S8 S13
S2 S6 S9
S3 S7 S11

These designations are placarded on rear of back panel.

• • • •

Interconnect wiring leads are installed on toggle switches and Connector/Receptacle J50 the same way. Step 2 shows Toggle Switch S3. If you install leads on more than J50 or one switch, you must increase parts listed for them in Initial Setup.

2. INSTALL INTERCONNECT WIRING LEADS ON TOGGLE SWITCHES AND CONNECTOR/RECEPTACLE J50. (SEE INTERCONNECT WIRING DESTINATION LIST, PAGE 10-58.)
   - Install interconnect lead (1), new lock washer (2), and screw (3) on Switch S3 (4). (See Interconnect Wiring Destination List, Page 10-58.) Use 1/4 inch flat tip screwdriver.
   - Repeat above installation step for other leads of interconnect wiring on Switch S3 (4).
   - Repeat above installation steps for interconnect leads on other toggle switches and Connector/ Receptacle J50.



NOTE

Rotary switch terminals are identified by switch number, terminal number, and terminal level. Each rotary switch has three terminal levels. Each level has a ring of terminals around it. Terminal level nearest the panel is the front (F) level. Terminal level nearest the placarded end plate is the rear (R) level. The level between the front and rear level is the center (C) level. Terminal numbers correspond to the numbers 1 thru 12 placarded on the end plate. For example, a wire marked S5-5C would connect to Rotary Switch S5, at Terminal 5, on center level.

• • • •

There are three long terminals, one at each level, between placarded numbers 12 and 1. These are common terminals. They are identified as common front (Com F), common center (Com C), and common rear (Com R) in the destination list.

• • • •

The following are designations for operator's control panel assembly rotary switches:

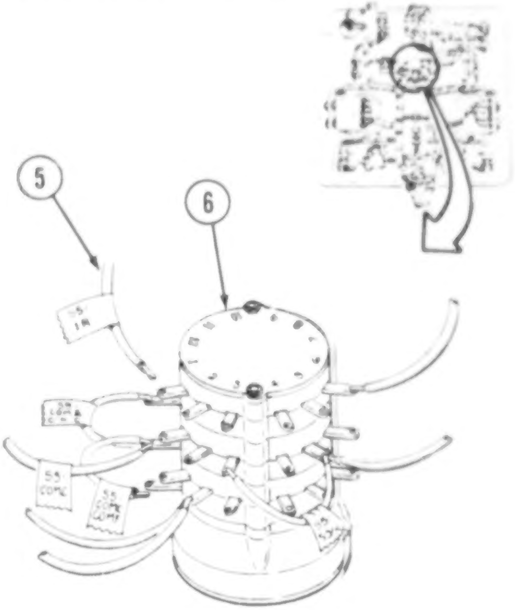
S5 S10 S12

These designations are placarded on rear of back panel.

• • • •

Interconnect wiring leads are installed on rotary switches and Potentiometer R1 the same way. Step 3 shows Rotary switch S5.

3. SOLDER INTERCONNECT WIRING LEADS AT ROTARY SWITCHES AND POTENTIOMETER R1. (SEE TM 55-1500-323-25 AND INTERCONNECT WIRING DESTINATION LIST, PAGE 10-58.)
   - Solder interconnect lead (5) at Switch S5 (6). (See TM 55-1500-323-25 and Interconnect Wiring Destination List, Page 10-58.)
   - Repeat above soldering step for other leads of interconnect wiring at Switch S5 (6).
   - Repeat above soldering steps for interconnect leads at other rotary switches and Potentiometer R1.



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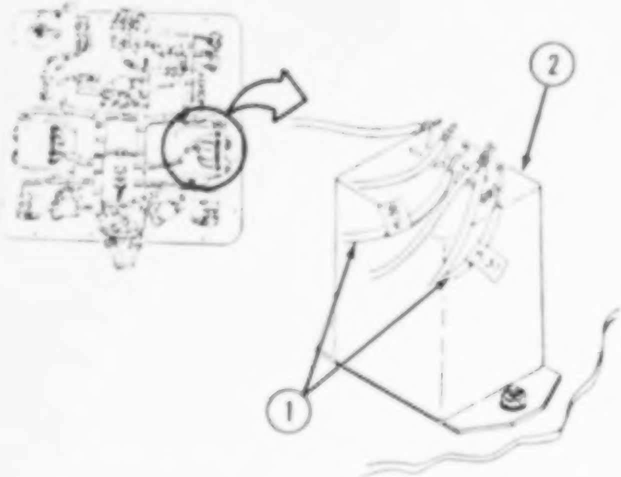
O. OPERATOR'S CONTROL PANEL ASSEMBLY INTERCONNECT WIRING INSTALLATION — Continued

NOTE

Interconnect wiring leads are installed on Mine Counters M12 and M13 the same way. Step 4 shows Mine Counter M13.

4. SOLDER INTERCONNECT WIRING LEADS AT MINE COUNTERS M12 AND M13. (SEE TM 55-1500-323-25 AND INTERCONNECT WIRING DESTINATION LIST, PAGE 10-58.)
   - Solder interconnect wiring leads (1) at Mine Counter M13 (2). (See TM 55-1500-323-25 and Interconnect Wiring Destination List, Page 10-58.)
   - Repeat above soldering step for interconnect leads at other mine counter.
   - Remove tags from leads.



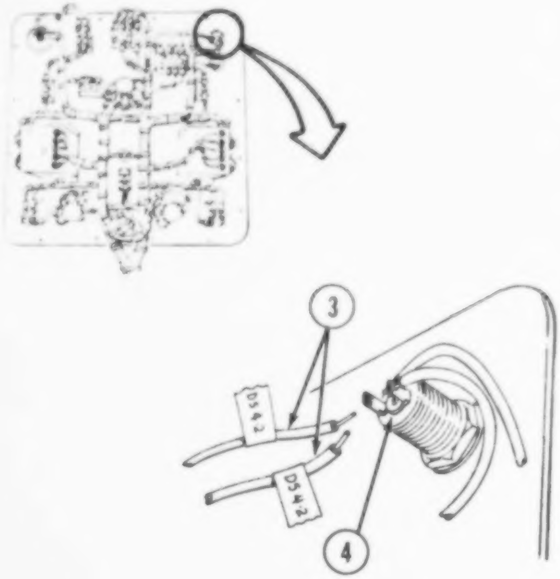
NOTE

Interconnect wiring leads are installed on Indicator Light Bases DS1 thru DS7 the same way. Step 5 shows Light Base DS4.

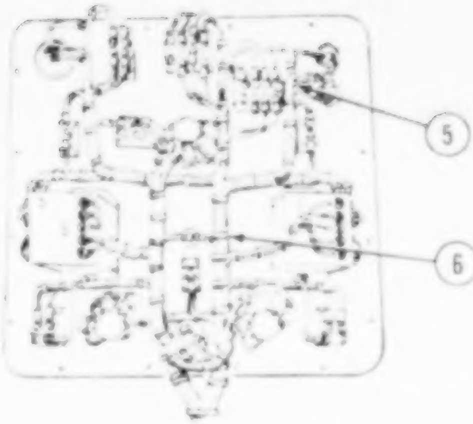
• • • •

Indicator light base terminals are designated 1 and 2. Terminal 1 is the center terminal.

5. SOLDER INTERCONNECT WIRING LEADS AT INDICATOR LIGHT BASES DS1 THRU DS7. (SEE TM 55-1500-323-25 AND INTERCONNECT WIRING DESTINATION LIST, PAGE 10-58.)
   - Solder interconnect leads (3) at Light Base DS4 (4). (See TM 55-1500-323-25 and Interconnect Wiring Destination List, Page 10-58.)
   - Repeat above soldering step for interconnect leads at other light bases.
   - Remove tags from leads.



6. INSTALL NEW CABLE TIES ON OPERATOR'S CONTROL PANEL WIRING.
   - Bundle all control panel wiring (5), and install new cable ties (6). Use round nose pliers.



7. INSTALL NEW PREFORMED PACKING ON RECEPTACLE J5. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-54.)

8. INSTALL CLAMP WITH OPERATOR'S CONTROL PANEL WIRING HARNESS ON OPERATOR CONTROL BOX. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-55.)

9. INSTALL RECEPTACLE J5 IN OPERATOR CONTROL BOX. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-55.)

10. CONNECT CONNECTOR P3 TO RECEPTACLE J3. (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-56.)

11. INSTALL OPERATOR'S CONTROL PANEL ASSEMBLY AND GASKET ON OPERATOR CONTROL BOX. (SEE OPERATOR CONTROL BOX, PAGE 10-3.)

12. PERFORM OPERATOR CONTROL BOX TEST (OCB). (SEE OPERATOR'S CONTROL PANEL ASSEMBLY, PAGE 10-18.)

END OF TASK

CHAPTER 11

ELECTRICAL ENCLOSURE ASSEMBLY (DIRECT SUPPORT)

Section I. REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

11-1 COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

11-2 SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

No special tools are authorized for the M128 Ground Vehicle Mine Dispenser.

11-3 REPAIR PARTS

Repair parts are listed and illustrated in the repair parts and special tools list TM 9-1095-205-34P, covering direct support and general support maintenance for this equipment.

Section II. MAINTENANCE PROCEDURES

11-4 ELECTRICAL ENCLOSURE ASSEMBLY (FUNCTIONAL DESCRIPTION)

ELECTRICAL ENCLOSURE ASSEMBLY JB1 houses the built in test equipment and alarm (B.I.T.E. ALARM) control system. The B.I.T.E. ALARM control system controls dispenser mode of operation. In TEST mode, this control system is used for preoperational checkout and troubleshooting. In RUN mode, this system performs several functions:

Monitors dispenser operation.
Shuts down dispenser if malfunction occurs.
Indicates malfunctioning system or systems.

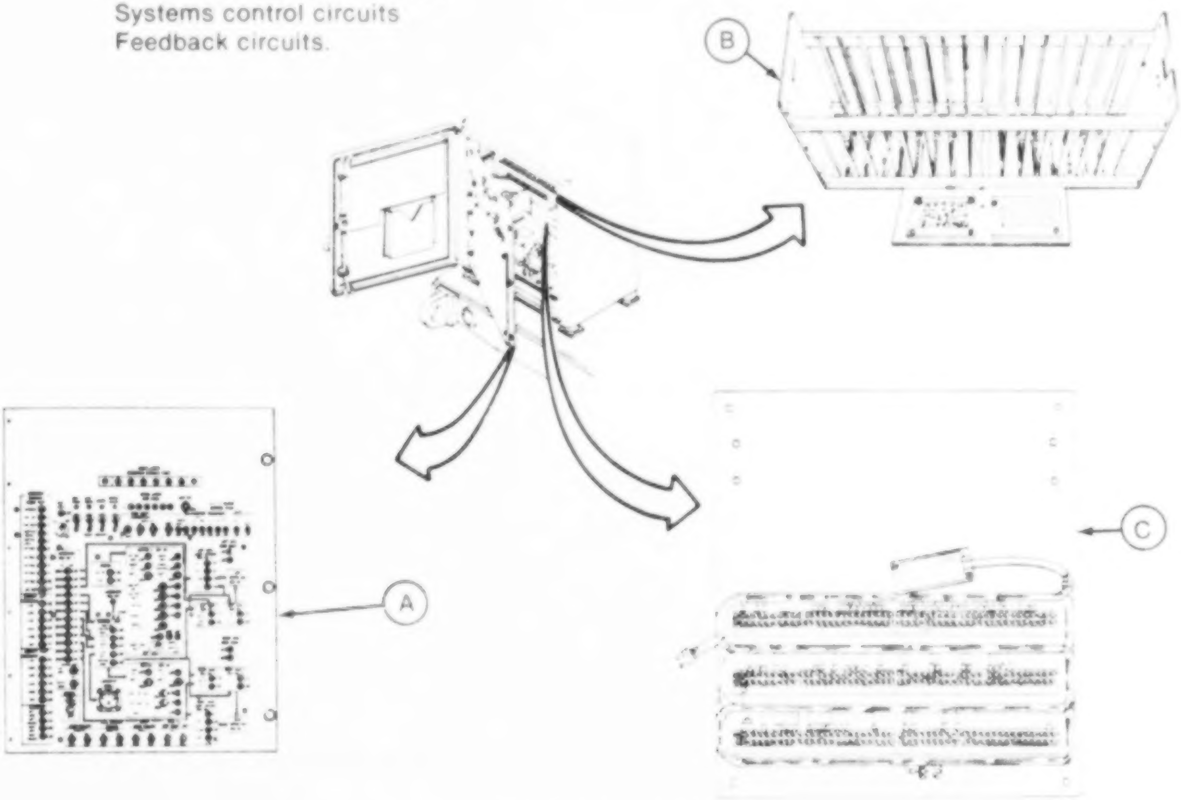
Ⓐ B.I.T.E. ALARM PANEL ASSEMBLY. Controls B.I.T.E. ALARM control system. Contains controls and displays that function as follows:

Mounted circuit breakers protect dispenser electrical circuits.
Switches select mode of operation and simulate dispenser operation.
Indicator lights display conditions and operation, and indicate system malfunction.

Ⓑ CARD RACK ASSEMBLY. Provides mounting and electrical interconnect circuits for 16 circuit card assemblies (CCAs). CCAs are printed circuit boards with solid state devices required to control, operate, or simulate operation of dispenser.

Ⓒ TERMINAL PANEL ASSEMBLY. Provides mounting for Number 1 terminal board (1TB). 1TB has 276 terminals. Terminals provide B.I.T.E. ALARM control system with interconnects as follows:

Electrical power distribution
Systems control circuits
Feedback circuits.



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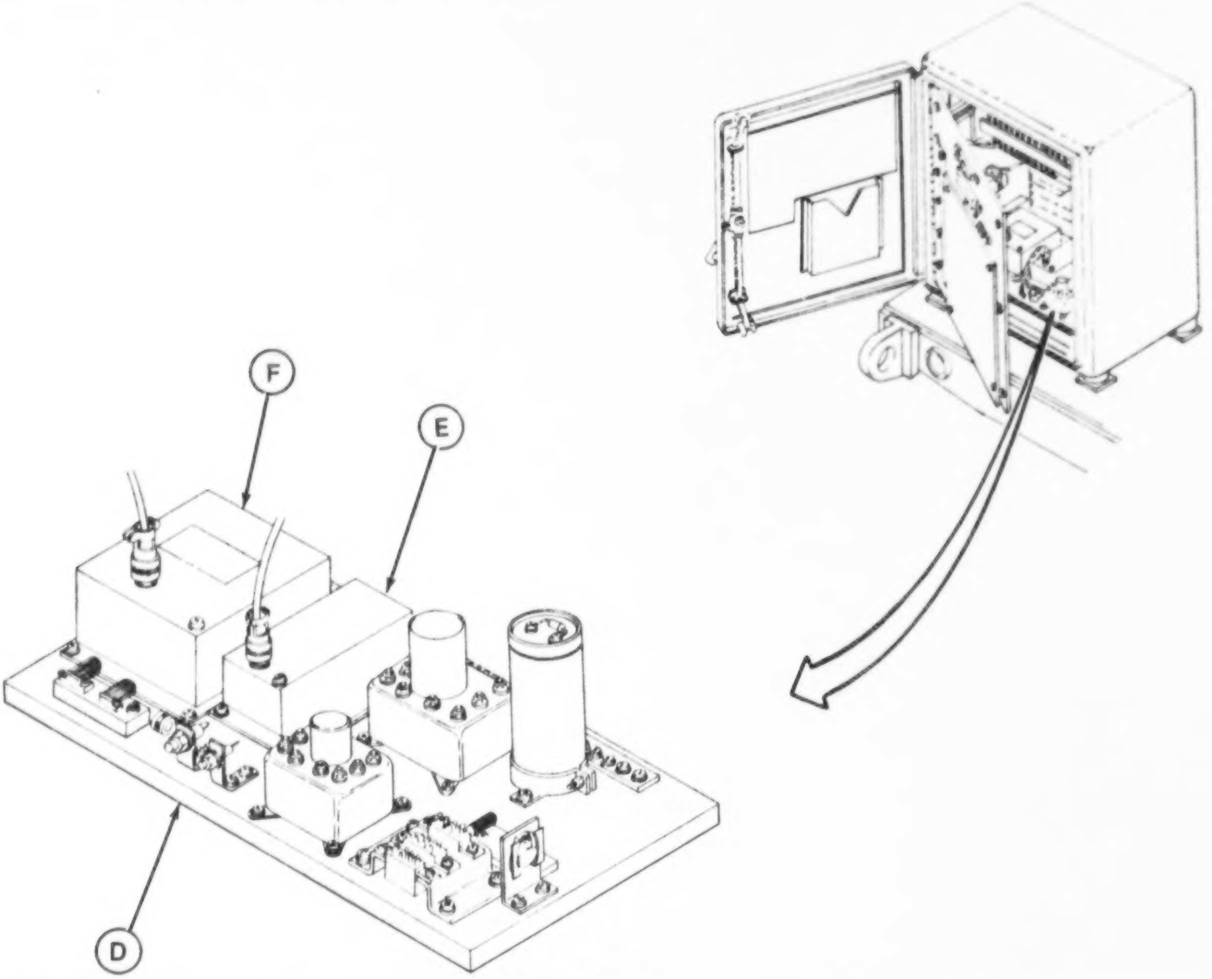
11-4 ELECTRICAL ENCLOSURE ASSEMBLY (FUNCTIONAL DESCRIPTION) — Continued

(D) POWER PANEL ASSEMBLY. Provides regulated voltages for operating and controlling circuit solid state devices and switching relays. Also provides for single point ground buss for circuits of B.I.T.E. ALARM control system.

(E) POWER MODULE PS-1. Provides regulated 14 V dc primarily for the operation of the following:
  Magazine pulse generator
  Vehicle speed pulse generator
  Launcher output mine sensors
  Solid state logic circuits.

(F) POWER MODULE PS-2. Provides regulated 28 V dc primarily for operation of the following:
  Transmitter auxillary power supply (TAPS)
  Engine coolant temperature transmitter
  Engine coolant temperature indicator.



11-5 ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS

DESCRIPTION

This task covers:

A. CONDUIT HUB C6 WIRE BUNDLE LEADS REMOVAL (p 11-6)
B. CONDUIT HUB C6 WIRE BUNDLE LEADS INSTALLATION (p 11-8)
C. CONDUIT HUB C1 WIRE BUNDLE LEADS REMOVAL (p 11-9)
D. CONDUIT HUB C1 WIRE BUNDLE LEADS INSTALLATION (p 11-13)
E. CONDUIT HUB C15 WIRE BUNDLE LEADS REMOVAL (p 11-15)
F. CONDUIT HUB C15 WIRE BUNDLE LEADS INSTALLATION (p 11-20)
G. ELECTRICAL ENCLOSURE ASSEMBLY REMOVAL (p 11-22)
H. ELECTRICAL ENCLOSURE ASSEMBLY INSTALLATION (p 11-29)
I. CABLE ASSEMBLY J80 REMOVAL (p 11-36)
J. CABLE ASSEMBLY J80 INSTALLATION (p 11-38)
K. OPERATING INSTRUCTIONS DECAL REMOVAL (p 11-40)
L. OPERATING INSTRUCTIONS DECAL INSTALLATION (p 11-41)
M. ELECTRICAL ENCLOSURE ASSEMBLY DISASSEMBLY (p 11-41)
N. ELECTRICAL ENCLOSURE ASSEMBLY REASSEMBLY (p 11-43)
O. SHOCK MOUNTS REMOVAL (p 11-46)
P. SHOCK MOUNTS INSTALLATION (p 11-47)

INITIAL SETUP

Tools and Special Tools:

- General mechanic's tool kit 5180-00-177-7033:
  - No. 2 cross tip screwdriver
  - 1/4 inch flat tip screwdriver
  - 3/8 inch flat tip screwdriver
  - Diagonal cutting pliers
  - Round nose pliers
  - 7/16 inch open end wrench
  - 7/16 inch box end wrench
  - 9/16 inch box end wrench
  - 5/16 inch box end wrench
  - 7/16 inch socket
  - 9/16 inch socket
  - Ratchet handle
  - Universal joint
  - 5 inch extension
  - 6 inch steel rule
  - Putty knife
- 15 inch adjustable wrench (2) 5120-00-264-3793
- Pipe wrench (2) 5120-00-277-1485
- Goggles 4240-00-269-7912

Materials/Parts:

- Self-locking nut (2) 5310-00-878-3292
- Self-locking nut (3) 5310-00-087-4652
- Self-locking nut (2) 5310-00-088-1251
- Self-locking nut (4) 5310-00-959-1488

Materials/Parts — Continued:

- Self-locking bolt (16) 5305-00-425-3416
- Lock washer (5) 5310-00-579-5752
- Lock washer (4) 5310-00-637-9541
- Lock washer 5310-00-184-8970
- Masking tape, Item 19, Appendix B
- Sealing washer (3) 5330-00-171-2441
- Gasket (6) 5330-01-143-1558
- Sealing compound, Item 25, Appendix B
- Solvent, Item 28, Appendix B
- Rags, Item 22, Appendix B
- Cable ties 5975-00-727-5153

Personnel Required:

- Electrical repairer
- Helper (2)

References:

- TM 9-1095-205-10
- TM 9-1095-205-20
- B.I.T.E. ALARM PANEL ASSEMBLY, Page 11-195
- CARD RACK ASSEMBLY, Page 11-103
- CIRCUIT CARD ASSEMBLIES, Page 11-265
- POWER PANEL ASSEMBLY, Page 11-111
- POWER MODULE PS-1 ADJUSTMENT, Page 11-179
- POWER MODULE PS-2 ADJUSTMENT, Page 11-187
- TERMINAL PANEL ASSEMBLY, Page 11-49

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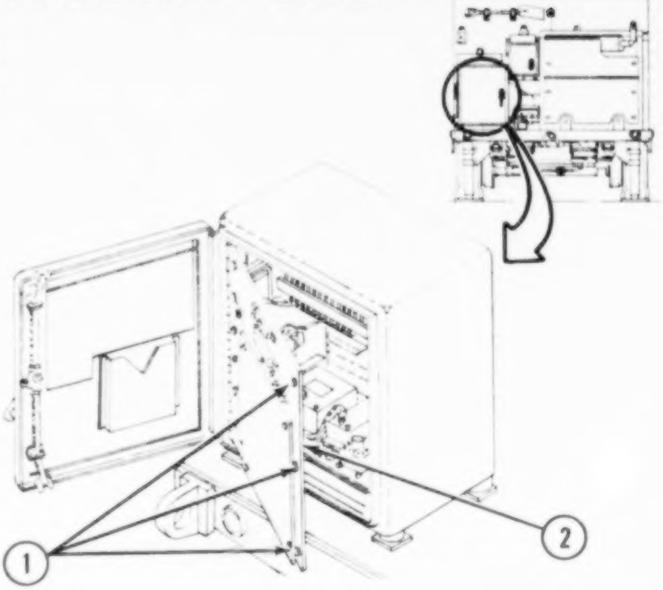
11-5 ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS — Continued



A. CONDUIT HUB C6 WIRE BUNDLE LEADS REMOVAL

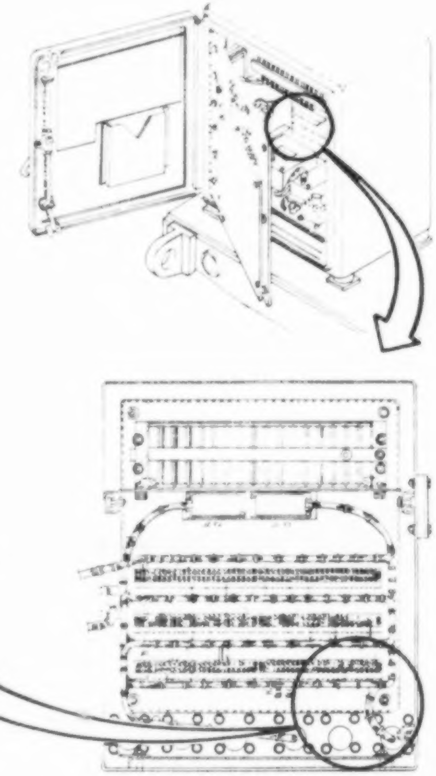
NOTE

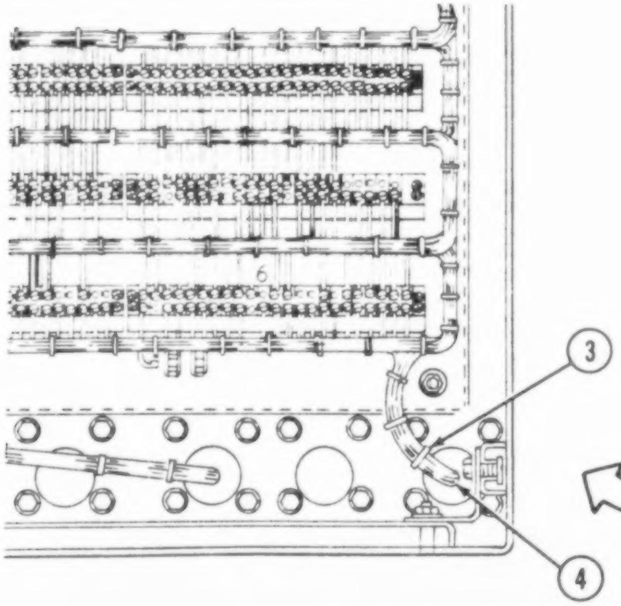
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Loosen fasteners (1), and open BACP (2). Use 3/8 inch flat tip screwdriver.

---

2. IDENTIFY 19 CONDUIT HUB C6 WIRE BUNDLE LEADS ON TERMINAL PANEL.
   - Cut and remove cable ties (3) from C6 wire bundle (4). Use diagonal cutting pliers. Discard cable ties.
   - Tag and mark leads. (See Conduit Hub C6 Lead Destination List, Page 11-7.)





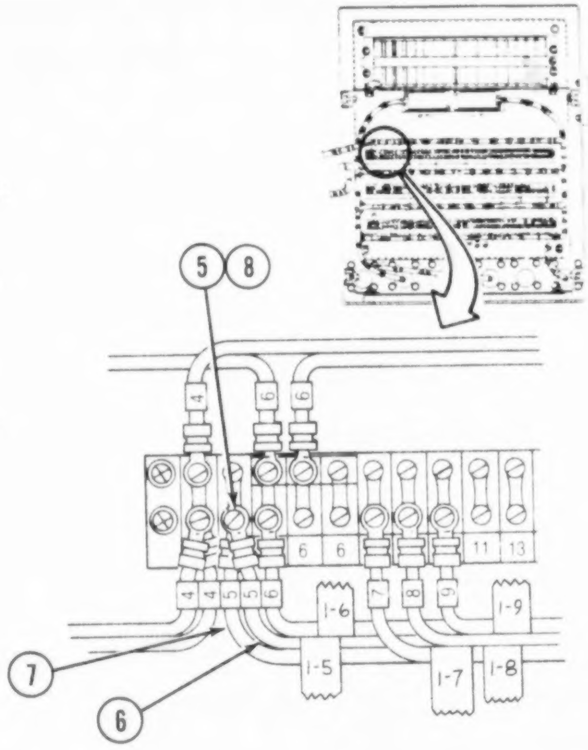
CONDUIT HUB C6 LEAD DESTINATION LIST

Wire No.	From Connection	To Terminal Board 1TB Part No.	Terminal No.
5	JB2-J35 Pin C	1	5
6	JB2-J35 Pin D	1	6
7	JB2-J35 Pin K	1	7
8	JB2-J35 Pin N	1	8
9	JB2-J35 Pin P	1	9
11	JB2-J35 Pin E	1	11
13	JB2-J35 Pin F	1	13
19	JB2-J35 Pin G	1	19
20	JB2-J35 Pin H	1	20
21	JB2-J35 Pin J	1	21
23	JB2-J35 Pin L	1	23
51	JB2-J35 Pin M	2	51
69	L/Mag Servo P32 Socket A	4	69
70	L/Mag Servo P32 Socket B	4	70
71	R/Mag Servo P31 Socket A	4	71
72	R/Mag Servo P31 Socket B	4	72
106	JB2-J35 Pin R	6	106
2	JB2-J35 Pin A	6	2
2	JB2-J35 Pin B	6	2

NOTE

Conduit Hub C6 wire bundle leads are removed the same way. Step 3 shows Lead No. 5.

3. REMOVE 19 CONDUIT HUB C6 WIRE BUNDLE LEADS FROM TERMINAL BOARD 1TB.
   - Remove screw (5), Lead No. 5 (6), and untagged lead (7) from 1TB, Part 1, Terminal 5 (8). Use 1/4 inch flat tip screwdriver.
   - Install untagged lead (7) and screw (5) on 1TB, Part 1, Terminal 5 (8). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal steps for other 18 C6 wire bundle leads.



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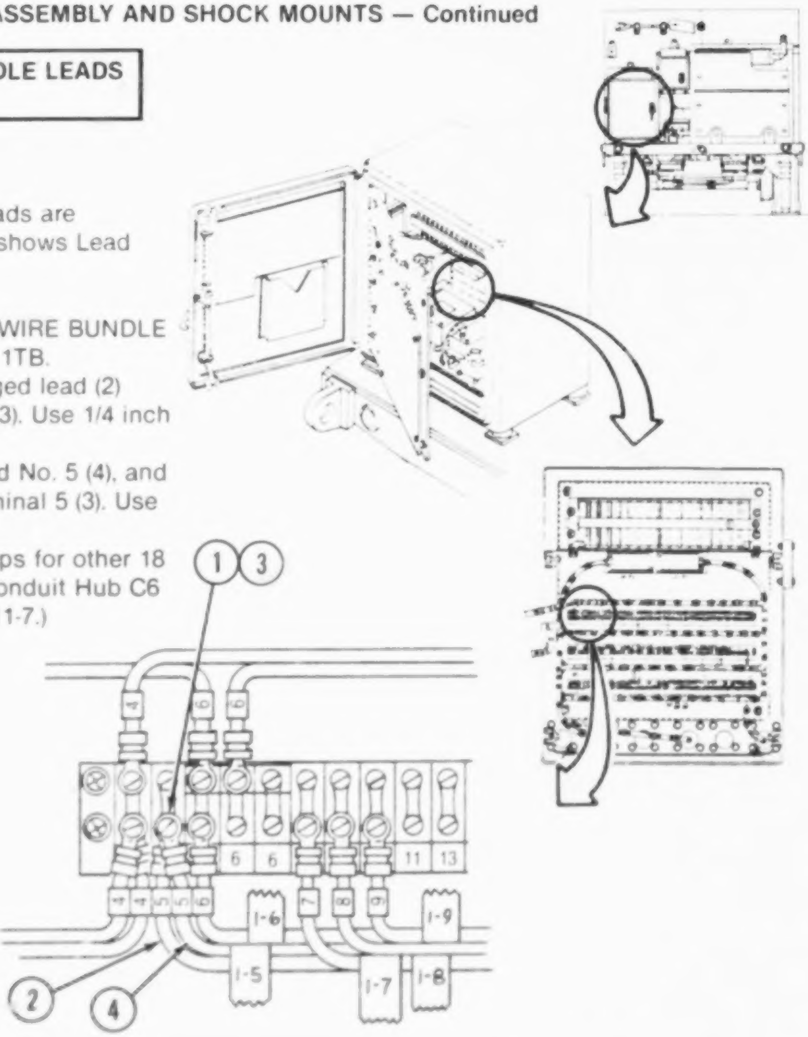
11-5 ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS — Continued

B. CONDUIT HUB C6 WIRE BUNDLE LEADS INSTALLATION

NOTE

Conduit Hub C6 wire bundle leads are installed the same way. Step 1 shows Lead No. 5.

1. INSTALL 19 CONDUIT HUB C6 WIRE BUNDLE LEADS ON TERMINAL BOARD 1TB.
   - Remove screw (1) and untagged lead (2) from 1TB, Part 1, Terminal 5 (3). Use 1/4 inch flat tip screwdriver.
   - Install untagged lead (2), Lead No. 5 (4), and screw (1) on 1TB, Part 1, Terminal 5 (3). Use 1/4 inch flat tip screwdriver.
   - Repeat above installation steps for other 18 C6 wire bundle leads. (See Conduit Hub C6 Lead Destination List, Page 11-7.)
   - Remove tags from leads.



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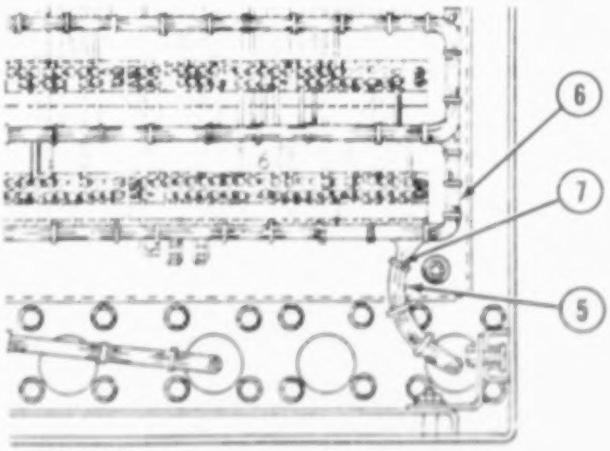
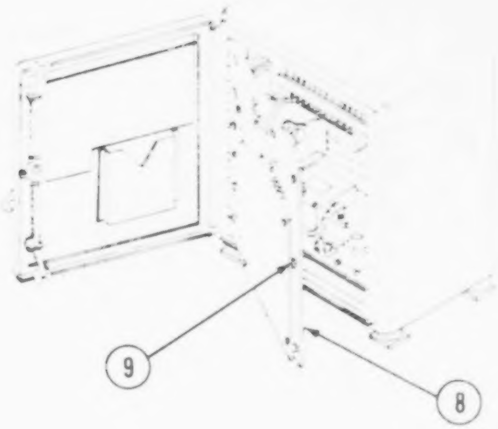
2. BUNDLE AND TIE 19 CONDUIT HUB C6 WIRE BUNDLE LEADS ON TERMINAL PANEL.
   - Bundle 19 C6 wire bundle leads (5) with other terminal panel leads (6).
   - Install cable ties (7) on bundled leads (5) and (6) as required. Use round nose pliers.



3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Close BACP (8), and tighten three fasteners (9). Use 3/8 inch flat tip screwdriver.

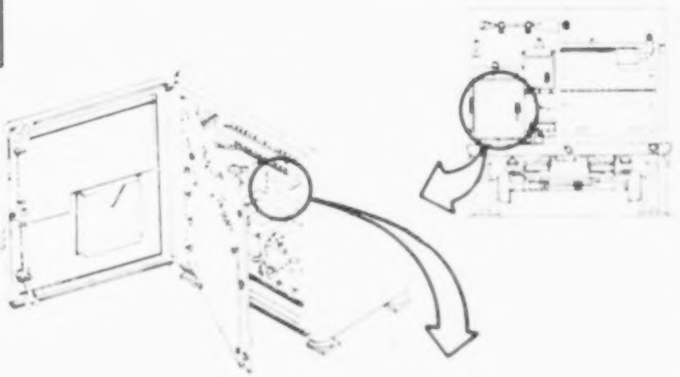


NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

C. CONDUIT HUB C1 WIRE BUNDLE LEADS REMOVAL



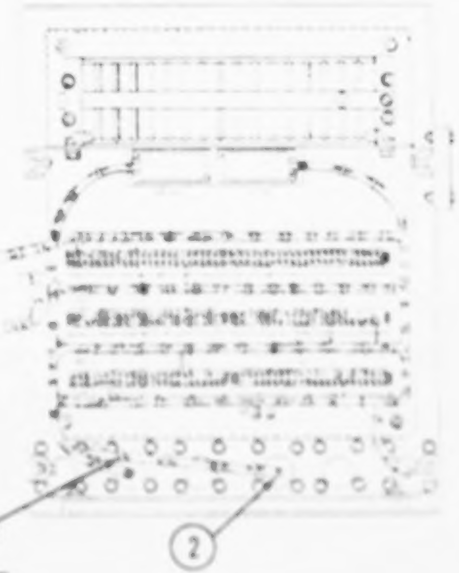
NOTE

PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-6.)

2. IDENTIFY 44 CONDUIT HUB C1 WIRE BUNDLE LEADS ON TERMINAL PANEL.
   - Cut and remove cable ties (1) from C1 wire bundle (2). Use diagonal cutting pliers. Discard cable ties.
   - Tag and mark leads. (See Conduit Hub C1 Lead Destination List, Page 11-10.)



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C. CONDUIT HUB C1 WIRE BUNDLE LEADS REMOVAL — Continued

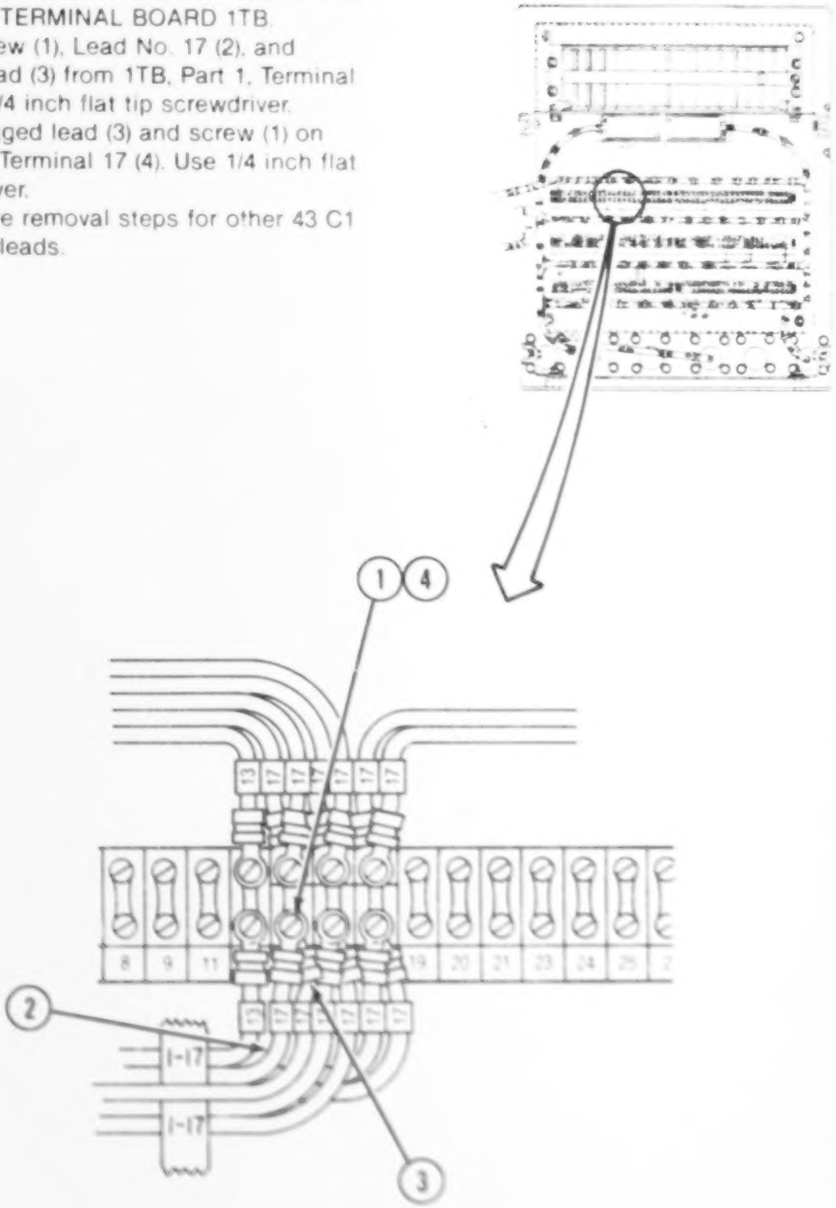
CONDUIT HUB C1 LEAD DESTINATION LIST

Wire No.	From Connection	To Terminal Board 1TB Part No.	Terminal No.
17	Vehicle Speed Pulse P11 Socket B	3	17
67	Vehicle Speed Pulse P11 Socket D	3	67
2	Vehicle Speed Pulse P11 Socket A	3	2
Shield	P11 cable assembly	3	Blank
82	J43 Socket B cable assembly	5	82
82	J43B Socket B cable assembly	5	82
85	J44 Socket B cable assembly	5	85
85	J44A Socket B cable assembly	5	85
13	Fuel tank sensor	1	13
66	JB3-3TB-66	4	66
2	JB3-3TB-2	4	2
Shield	JB3-3TB-blank	4	Blank
Shield	JB3-3TB-blank	4	Blank
2	JB3-3TB-2	4	2
65	JB3-3TB-65	4	65
64	JB3-3TB-64	4	64
2	JB3-3TB-2	4	2
Shield	JB3-3TB-blank	4	Blank
Shield	JB3-3TB-blank	4	Blank
2	JB3-3TB-2	4	2
63	JB3-3TB-63	4	63
61	JB3-3TB-61	3	61
Shield	JB3-3TB-blank	3	Blank
60	JB3-3TB-60	3	60
2	JB3-3TB-2	3	2
Shield	JB3-3TB-blank	3	Blank
Shield	JB3-3TB-blank	3	Blank
2	JB3-3TB-2	3	2
59	JB3-3TB-59	3	59
58	JB3-3TB-58	3	58
2	JB3-3TB-2	3	2
Shield	JB3-3TB-blank	3	Blank
55	JB3-3TB-55	5	55
2	JB3-3TB-2	5	2
Shield	JB3-3TB-blank	5	2
17	JB3-3TB-17	1	17
68	JB3-3TB-68	4	68
2	JB3-3TB-2	4	2
Shield	JB3-3TB-blank	4	Blank
95	JB3-3TB-95	6	95
2	JB3-3TB-2	6	2
2	JB3-3TB-2	6	2
94	JB3-3TB-94	6	94

NOTE

Conduit Hub C1 wire bundle leads are removed the same way. Step 3 shows Lead No. 17.

3. REMOVE 44 CONDUIT HUB C1 WIRE BUNDLE LEADS FROM TERMINAL BOARD 1TB.
   - Remove screw (1), Lead No. 17 (2), and untagged lead (3) from 1TB, Part 1, Terminal 17 (4). Use 1/4 inch flat tip screwdriver.
   - Install untagged lead (3) and screw (1) on 1TB, Part 1, Terminal 17 (4). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal steps for other 43 C1 wire bundle leads.



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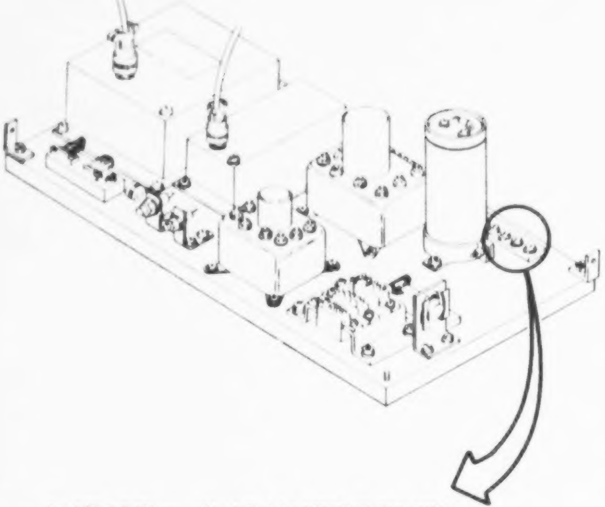
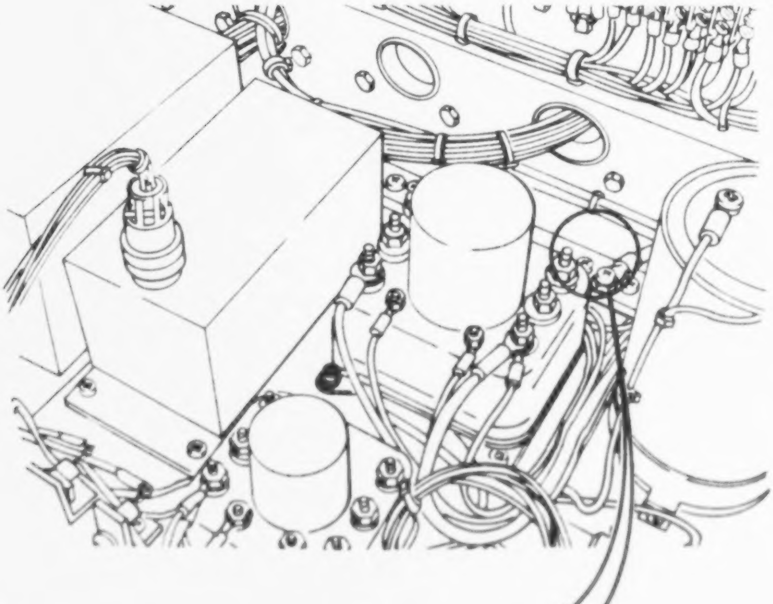
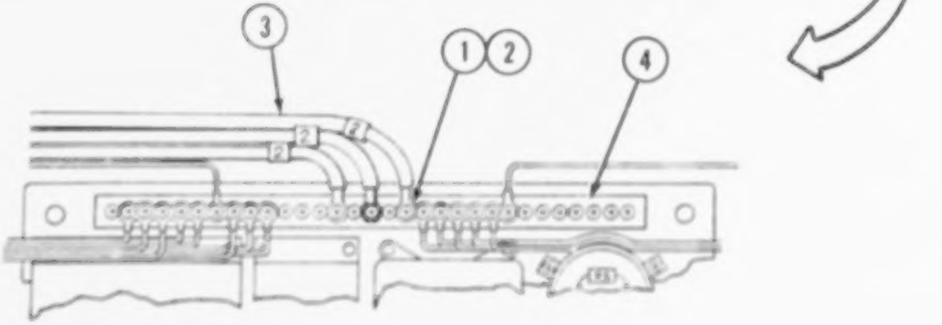
C. CONDUIT HUB C1 WIRE BUNDLE LEADS REMOVAL — Continued

4. REMOVE THREE CONDUIT HUB C1 WIRE BUNDLE LEADS FROM POWER PANEL ASSEMBLY GROUND BUS.
   - Tag and mark leads.
   - Remove screw (1), lock washer (2), and C1 lead No. 2 (3) from ground bus (4). Use No. 2 cross tip screwdriver. Discard lock washer.
   - Repeat above removal step for other two leads.

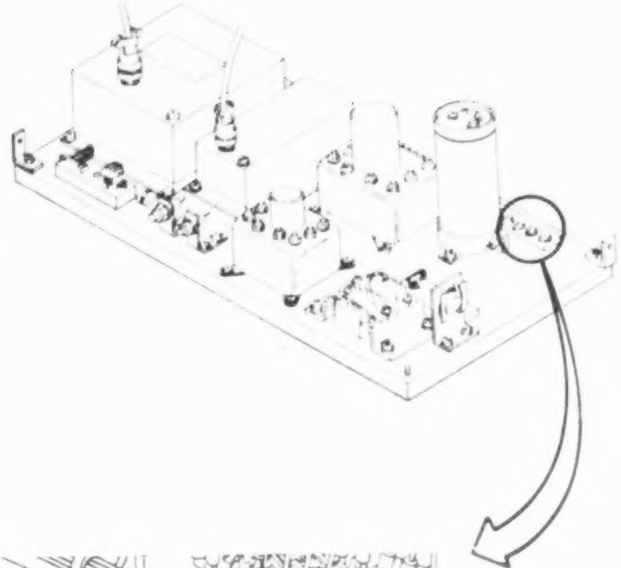


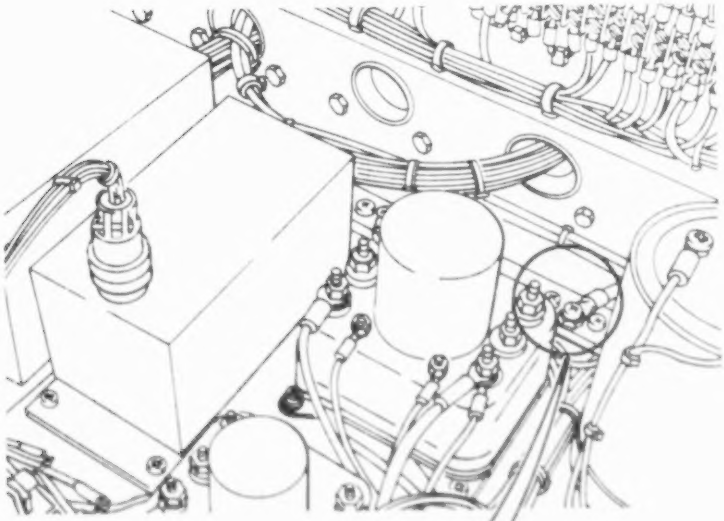


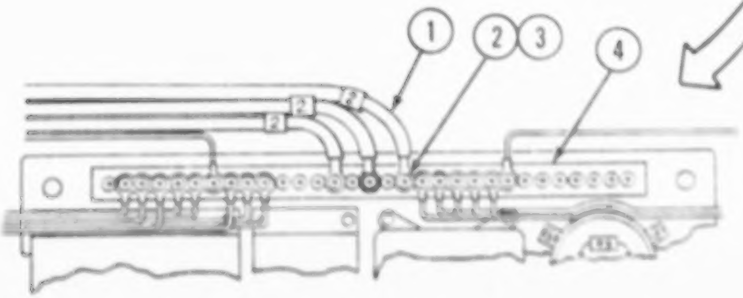


D. CONDUIT HUB C1 WIRE BUNDLE LEADS INSTALLATION

1. INSTALL THREE CONDUIT HUB C1 WIRE BUNDLE LEADS ON POWER PANEL ASSEMBLY GROUND BUS.
   - Install No. 2 lead (1), new lock washer (2), and screw (3) on ground bus (4). Use No. 2 cross tip screwdriver.
   - Repeat above installation step for other two leads.
   - Remove tags from leads.







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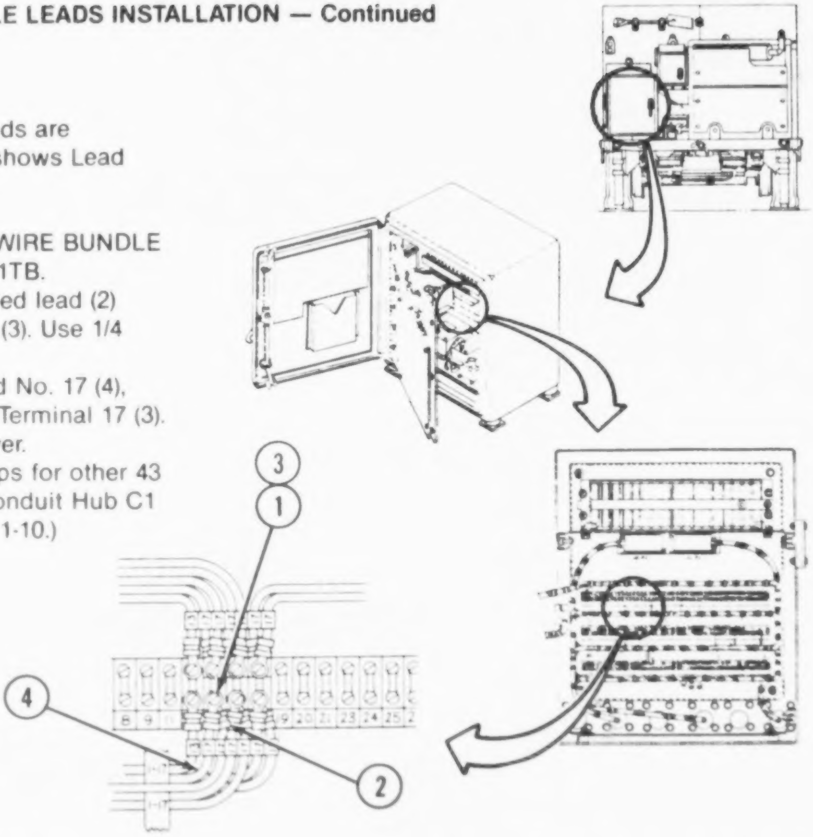
D. CONDUIT HUB C1 WIRE BUNDLE LEADS INSTALLATION — Continued

NOTE

Conduit Hub C1 wire bundle leads are installed the same way. Step 2 shows Lead No. 17.

2. INSTALL 44 CONDUIT HUB C1 WIRE BUNDLE LEADS ON TERMINAL BOARD 1TB.
   - Remove screw (1) and untagged lead (2) from 1TB, Part 1, Terminal 17 (3). Use 1/4 inch flat tip screwdriver.
   - Install untagged lead (2), Lead No. 17 (4), and screw (1) on 1TB, Part 1, Terminal 17 (3). Use 1/4 inch flat tip screwdriver.
   - Repeat above installation steps for other 43 C1 wire bundle leads. (See Conduit Hub C1 Lead Destination List, Page 11-10.)
   - Remove tags from leads.



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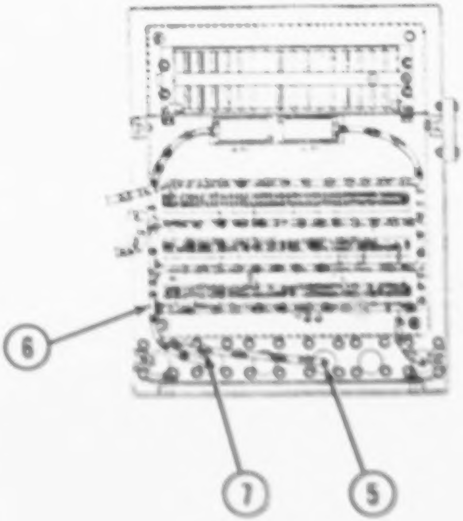
3. BUNDLE AND TIE 44 CONDUIT HUB C1 WIRE BUNDLE LEADS ON TERMINAL PANEL.
   - Bundle 44 C1 wire bundle leads (5) with other terminal panel leads (6).
   - Install cable ties (7) on bundled leads (5) and (6) as required. Use round nose pliers.

4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-9.)



NOTE

FOLLOW-ON MAINTENANCE:
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

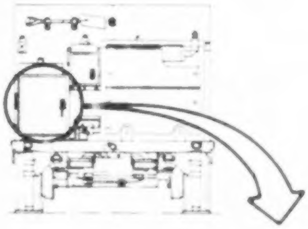
E. CONDUIT HUB C15 WIRE BUNDLE LEADS REMOVAL

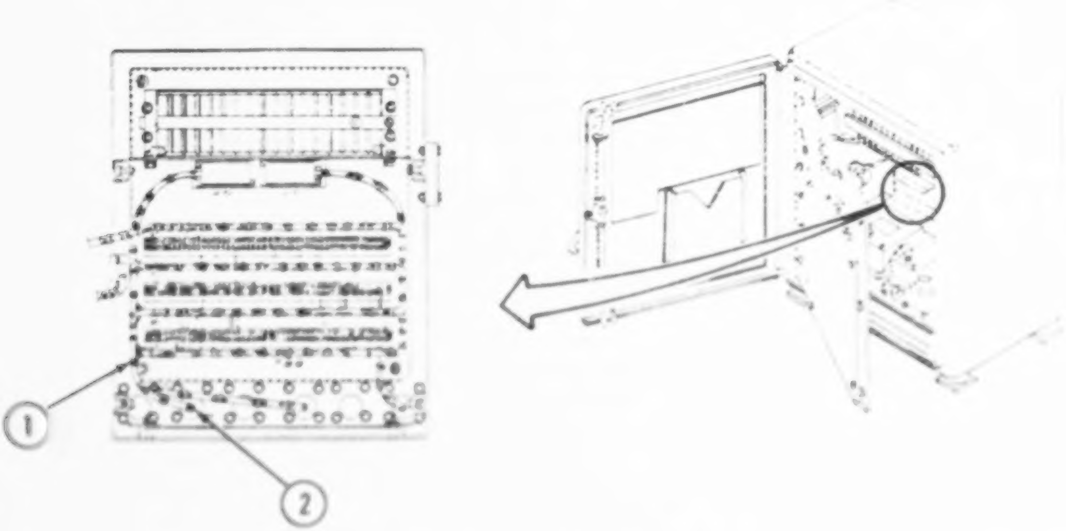
NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-6.)

2. IDENTIFY 75 CONDUIT HUB C15 BUNDLE LEADS ON TERMINAL PANEL.
   - Cut and remove cable ties (1) from C15 wire bundle (2). Use diagonal cutting pliers. Discard cable ties.
   - Tag and mark leads. (See Conduit Hub C15 Lead Destination List, Page 11-16.)





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E. CONDUIT HUB C15 WIRE BUNDLE LEADS REMOVAL — Continued

CONDUIT HUB C15 LEAD DESTINATION LIST

NOTE

Two Conduit Hub C15 leads do not go to Terminal Board 1TB. They are as follows:
Wire No. 1 from starter solenoid to Relay K1 Terminal A1
Wire No. 2 from bell housing to ground bus bar.

Wire No.	From Connection	To Terminal Board 1TB Part No.	Terminal No.
2	JB4-4TB-2	3	2
6	JB4-4TB-6	1	6
24	JB4-4TB-24	1	24
25	JB4-4TB-25	1	25
26	JB4-4TB-26	1	26
27	JB4-4TB-27	1	27
28	JB4-4TB-28	1	28
29	JB4-4TB-29	1	29
30	JB4-4TB-30	2	30
31	JB4-4TB-31	2	31
32	JB4-4TB-32	2	32
33	JB4-4TB-33	2	33
34	JB4-4TB-34	2	34
35	JB4-4TB-35	2	35
36	JB4-4TB-36	2	36
37	JB4-4TB-37	2	37
38	JB4-4TB-38	2	38
39	JB4-4TB-39	2	39
40	JB4-4TB-40	2	40
41	JB4-4TB-41	2	41
42	JB4-4TB-42	2	42
43	JB4-4TB-43	2	43
44	JB4-4TB-44	2	44
45	JB4-4TB-45	2	45
46	JB4-4TB-46	2	46
47	JB4-4TB-47	2	47
48	JB4-4TB-48	2	48
17	J9 Socket d	1	17
52	J9 Socket S	3	52
53	J9 Socket T	3	53
Shield	J9 Socket A	3	Blank
54	J9 Socket C	4	54
54	J9 Socket E	4	54
88	J9 Socket D	3	88
2	J9 Socket W	3	2
Shield	. . .	3	Blank
54	J9 Socket R	6	54
96	J9 Socket P	6	96
2	J9 Socket c	6	2
Shield	. . .	6	2

CONDUIT HUB C15 LEAD DESTINATION LIST — Continued

Wire No.	From Connection	To Terminal Board 1TB Part No.	Terminal No.
54	J9 Socket J	6	54
101	J9 Socket H	6	101
2	J9 Socket Y	6	2
Shield	. . .	6	2
54	J9 Socket G	6	54
102	J9 Socket F	6	102
2	J9 Socket X	6	2
Shield	. . .	6	2
17	J9 Socket L	6	17
103	J9 Socket K	6	103
2	J9 Socket a	6	2
Shield	. . .	6	2
17	J9 Socket N	6	17
104	J9 Socket M	6	104
2	J9 Socket b	6	2
Shield	. . .	6	2
105	J9 Socket B	6	2
76	J9 Socket V	5	76
77	J9 Socket e	5	77
83	J9 Socket k	5	83
84	J9 Socket f	5	84
Shield	J9 Socket j	6	2
Shield	J9 Socket g	6	2
2	J9 Socket Z	3	2
2	J9 Socket i	3	2
17	L LOAD/UNLOAD PB1	1	17
17	R LOAD/UNLOAD PB2	1	17
49	R LOAD/UNLOAD PB2	2	49
50	L LOAD/UNLOAD PB1	2	50
54	P41 Pin A	4	54
73	P41 Pin B	5	73
74	P41 Pin C	5	74
54	P42 Pin A	4	54
75	P42 Pin B	5	75
2	JB4-4TB-2	3	2

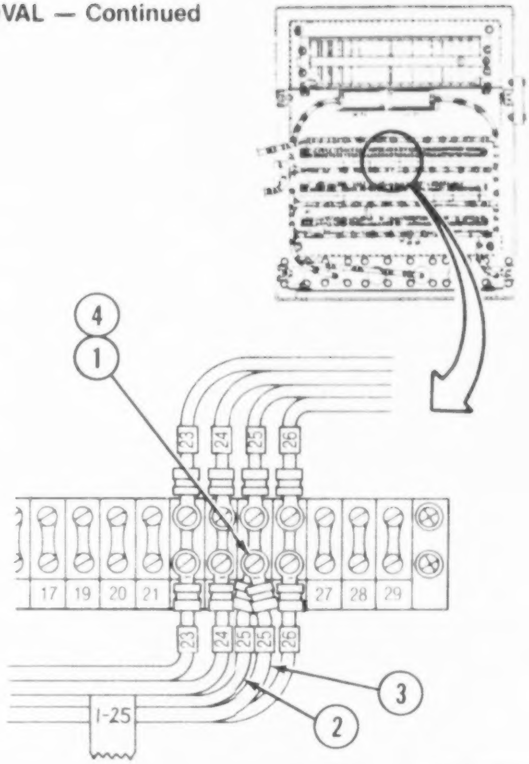
GO TO NEXT PAGE

E. CONDUIT HUB C15 WIRE BUNDLE LEADS REMOVAL — Continued

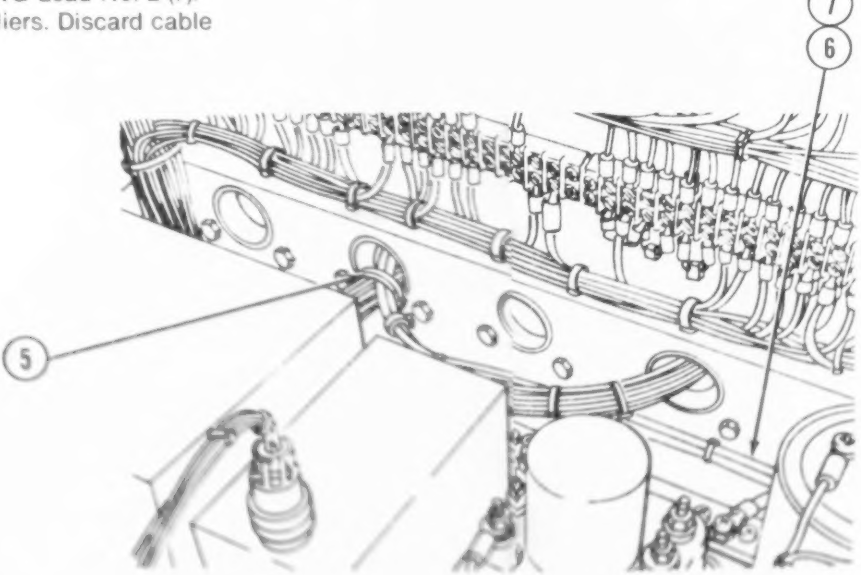
NOTE

Conduit Hub C15 wire bundle leads are removed the same way. Step 3 shows Lead No. 25.

3. REMOVE 75 CONDUIT HUB C15 WIRE BUNDLE LEADS FROM TERMINAL BOARD 1TB.
   - Remove screw (1), Lead No. 25 (2), and untagged lead (3) from 1TB, Part 1, Terminal 25 (4). Use 1/4 inch flat tip screwdriver.
   - Install untagged lead (3) and screw (1) on 1TB, Part 1, Terminal 25 (4). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal steps for other 74 C15 wire bundle leads.



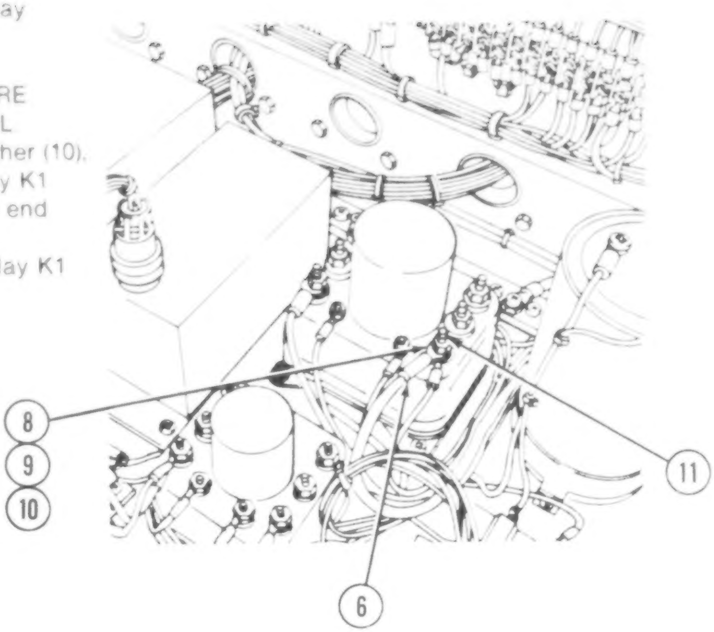
4. IDENTIFY TWO CONDUIT HUB C15 WIRE BUNDLE LEADS ON POWER PANEL.
   - Cut and remove cable ties (5) from 8 AWG Lead No. 1 (6) and 8 AWG Lead No. 2 (7). Use diagonal cutting pliers. Discard cable ties.
   - Tag and mark leads.



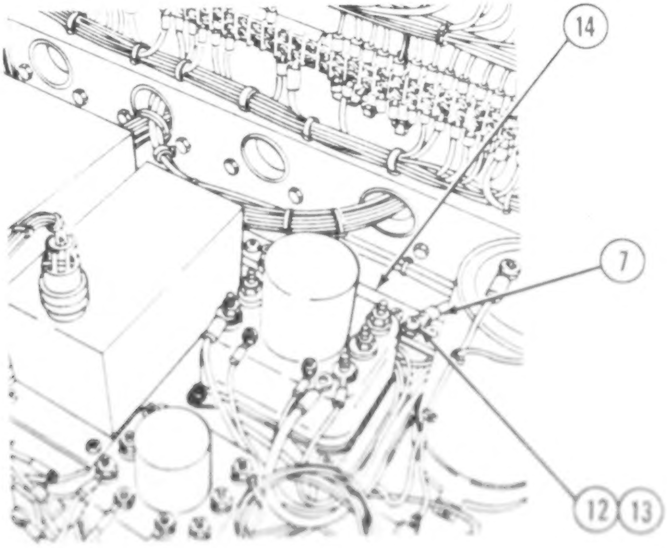
NOTE

Do not remove untagged lead from Relay K1 Terminal A1.

5. REMOVE TWO CONDUIT HUB C15 WIRE BUNDLE LEADS FROM POWER PANEL
   - Remove nut (8), lock washer (9), washer (10), and 8 AWG Lead No. 1 (6) from Relay K1 Terminal A1 (11). Use 7/16 inch open end wrench. Discard lock washer.
   - Install washer (10) and nut (8) on Relay K1 Terminal A1 (11).



- Remove screw (12), lock washer (13), and 8 AWG Lead No. 2 (7) from power panel ground bus (14). Use No. 2 cross tip screwdriver. Discard lock washer.



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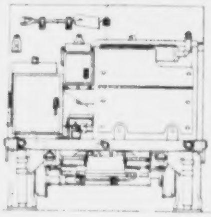
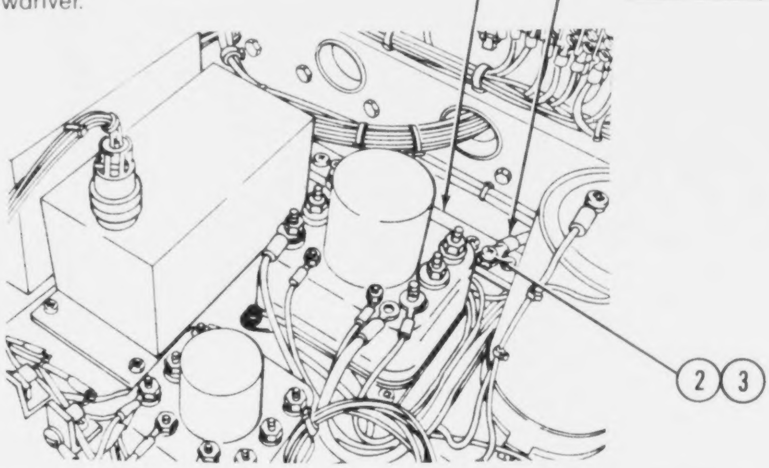
11-5 ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS — Continued

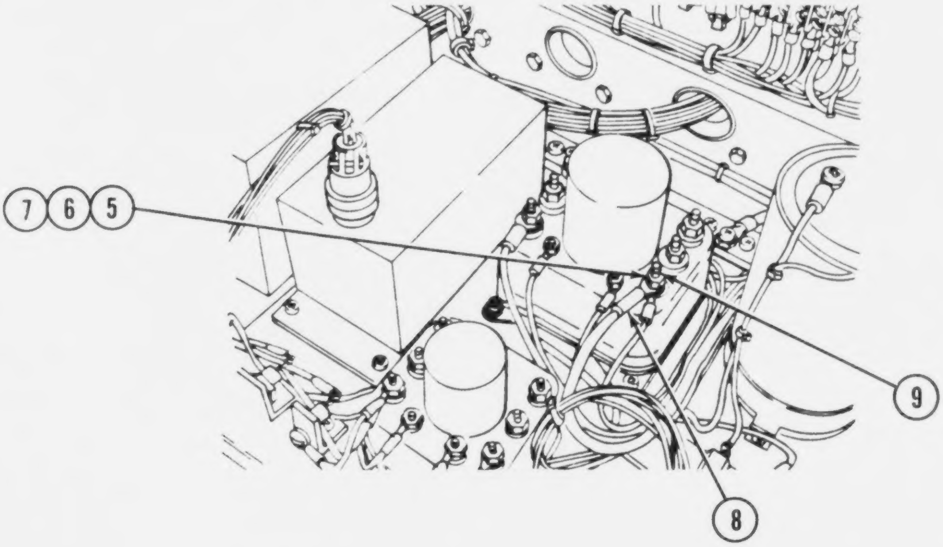
F. CONDUIT HUB C15 WIRE BUNDLE LEADS INSTALLATION



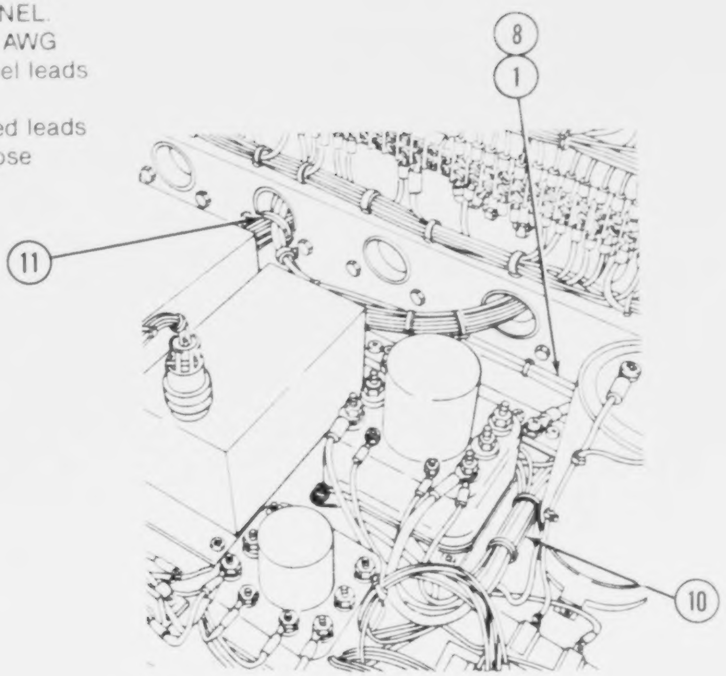
1. INSTALL TWO CONDUIT HUB C15 WIRE BUNDLE LEADS ON POWER PANEL.
    - Install 8 AWG Lead No. 2 (1), new lock washer (2), and screw (3) on ground bus (4). Use No. 2 cross tip screwdriver.
    - Remove tag from lead.



- Remove nut (5) and washer (6) from Relay K1 Terminal A1 (7).
- Install 8 AWG Lead No. 1 (8), washer (6), new lock washer (9), and nut (5) on Relay K1 Terminal A1 (7). Use 7/16 inch open end wrench.
- Remove tag from lead.



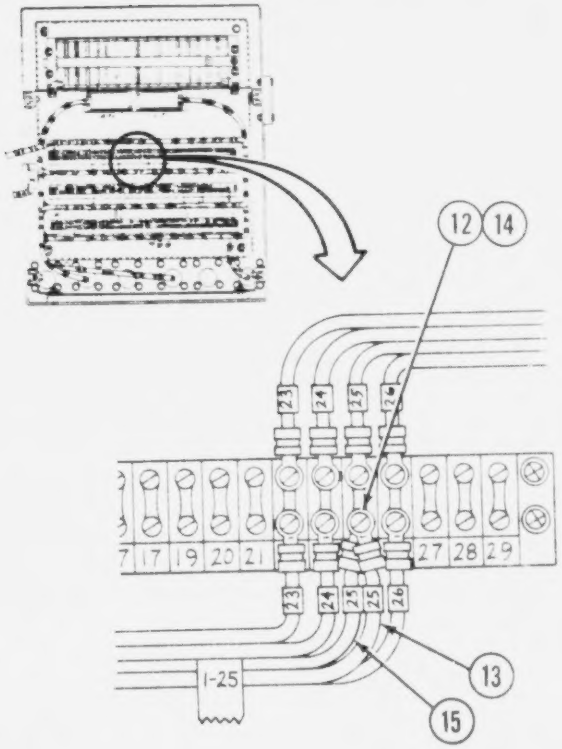
2. BUNDLE AND TIE TWO CONDUIT HUB C15 WIRE BUNDLE LEADS AT POWER PANEL.
   - Bundle 8 AWG Lead No. 2 (1) and 8 AWG Lead No. 1 (8) with other power panel leads (10).
   - Install new cable ties (11) on bundled leads (1) and (8) as required. Use round nose pliers.



NOTE

Conduit Hub C15 wire bundle leads are installed the same way. Step 3 shows Lead No. 25.

3. INSTALL 75 CONDUIT HUB C15 WIRE BUNDLE LEADS ON TERMINAL BOARD 1TB.
   - Remove screw (12) and untagged lead (13) from 1TB, Part 1, Terminal 25 (14). Use 1/4 inch flat tip screwdriver.
   - Install untagged lead (13), Lead No. 25 (15), and screw (12) on 1TB, Part 1, Terminal 25 (14). Use 1/4 inch flat tip screwdriver.
   - Repeat above installation steps for other 74 C15 wire bundle leads. (See Conduit Hub C15 Lead Destination List, Page 11-16.)
   - Remove tags from leads.



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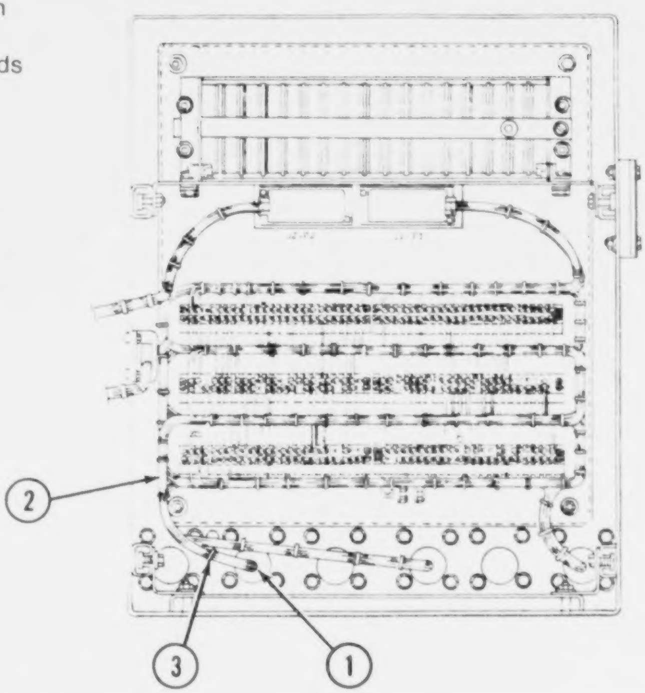
F. CONDUIT HUB C15 WIRE BUNDLE LEADS INSTALLATION — Continued

4. BUNDLE AND TIE 75 CONDUIT HUB C15 WIRE BUNDLE LEADS AT TERMINAL PANEL.
   - Bundle 75 C15 wire bundle leads (1) with other terminal panel leads (2).
   - Install new cable ties (3) on bundled leads (1) and (2) as required. Use round nose pliers.

5. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-9.)



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

G. ELECTRICAL ENCLOSURE ASSEMBLY REMOVAL

NOTE

PRELIMINARY PROCEDURES:

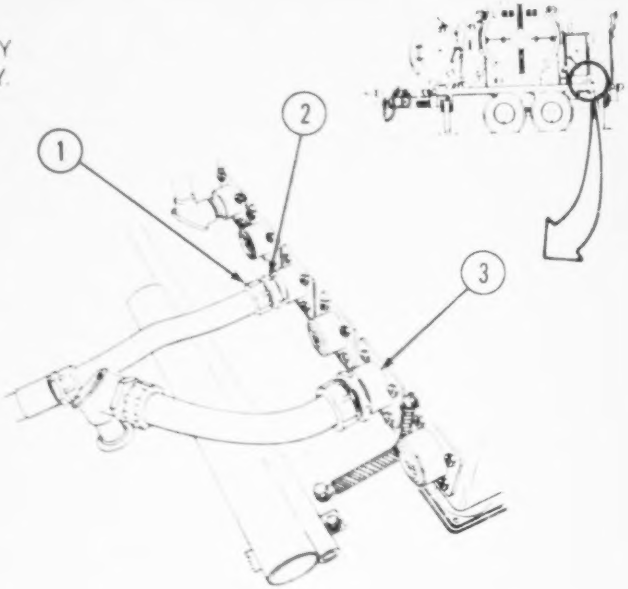
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Unstow Tool Kit. (See TM 9-1095-205-10.)
Remove Operator Control Box From Storage Cabinet. (See TM 9-1095-205-10.)
Remove Cables From Storage Cabinet. (See TM 9-1095-205-10.)
Unstow Operator's Manual. (See TM 9-1095-205-10.)
Unstow Rawhide Mallet. (See TM 9-1095-205-10.)
Unstow Manual Crank. (See TM 9-1095-205-10.)
Remove Control Box Storage Assembly. (See TM 9-1095-205-20.)
Remove Control Box Frame Assembly. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. REMOVE CONDUIT HUB C6 WIRE BUNDLE LEADS FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-6.)

2. REMOVE CONDUIT HUB C1 WIRE BUNDLE LEADS FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-9.)

3. REMOVE CONDUIT HUB C15 WIRE BUNDLE LEADS FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-15.)

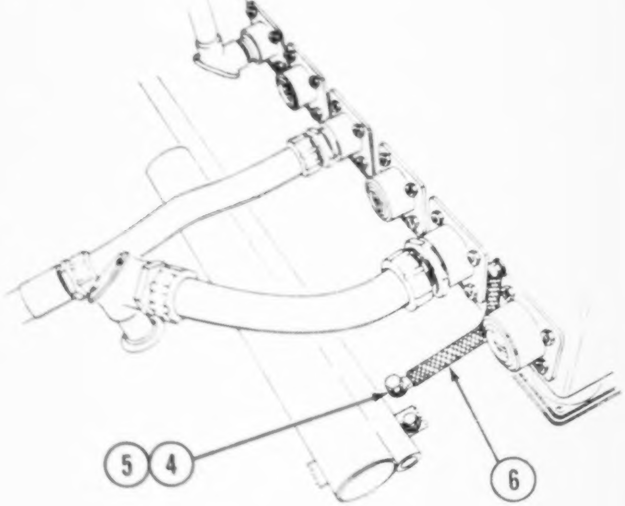
4. REMOVE LIQUIDTIGHT CONNECTOR HUBS FROM CONDUIT HUB C1 CONNECTOR BODY AND CONDUIT HUB C15 CONNECTOR BODY.
   - Remove connector hub (1) from C1 connector body (2). Use two 15 inch adjustable wrenches.
   - Slide connector hub (1) away from C1 connector body (2).
   - Repeat above removal steps for C15 connector body (3).



WARNING

Dirt and dispenser fluids may hurt your eyes. Wear goggles when working under the chassis.

5. REMOVE GROUND STRAP FROM CHASSIS.
   - Remove self-locking nut (4), screw (5), and ground strap (6) from chassis. Use 7/16 inch box end wrench and 7/16 inch socket with ratchet handle. Use helper. Discard self-locking nut.



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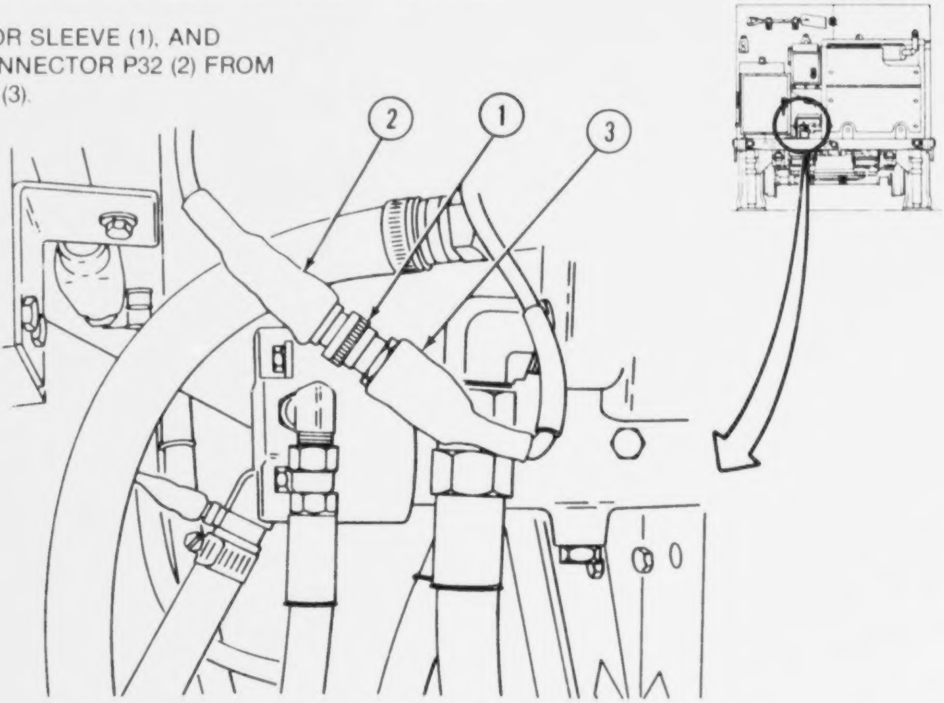
G. ELECTRICAL ENCLOSURE ASSEMBLY REMOVAL — Continued

6. TURN CONNECTOR SLEEVE (1), AND DISCONNECT CONNECTOR P32 (2) FROM RECEPTACLE J32 (3).



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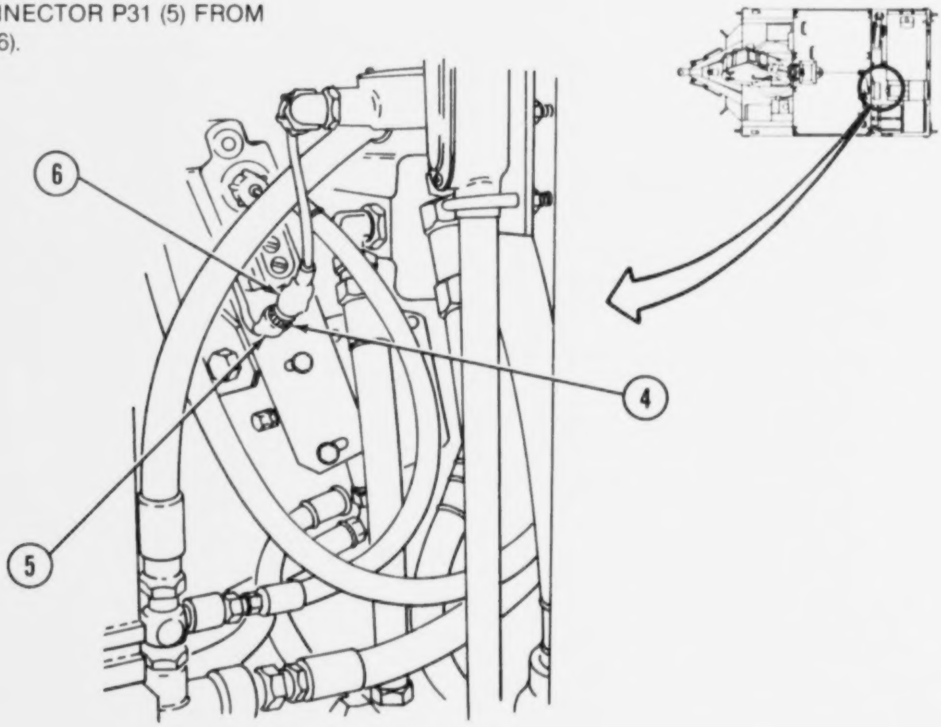
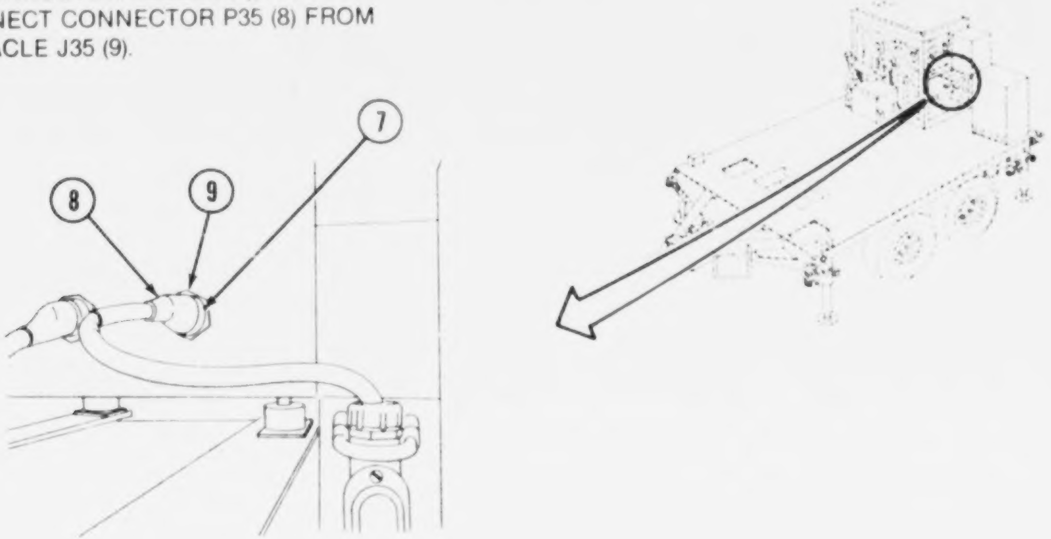
7. TURN CONNECTOR SLEEVE (4), AND DISCONNECT CONNECTOR P31 (5) FROM RECEPTACLE J31 (6).



8. TURN CONNECTOR SLEEVE (7), AND DISCONNECT CONNECTOR P35 (8) FROM RECEPTACLE J35 (9).



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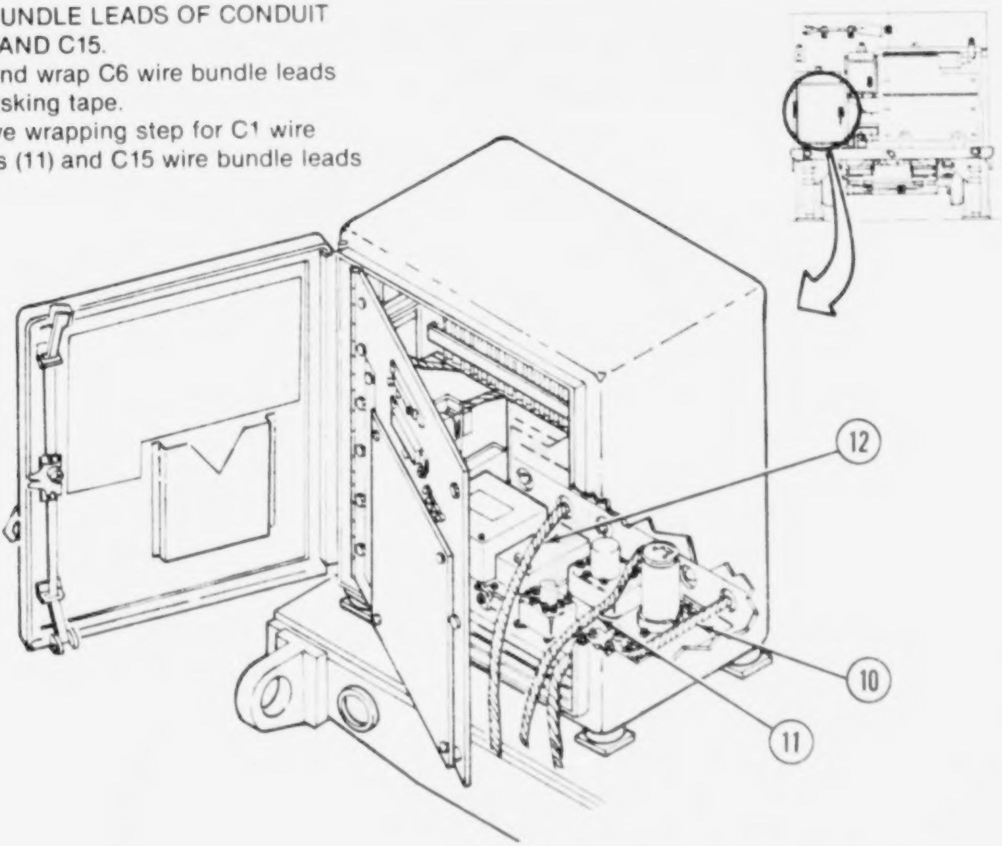
9. WRAP WIRE BUNDLE LEADS OF CONDUIT HUBS C6, C1, AND C15.
   - Straighten and wrap C6 wire bundle leads (10). Use masking tape.
   - Repeat above wrapping step for C1 wire bundle leads (11) and C15 wire bundle leads (12).



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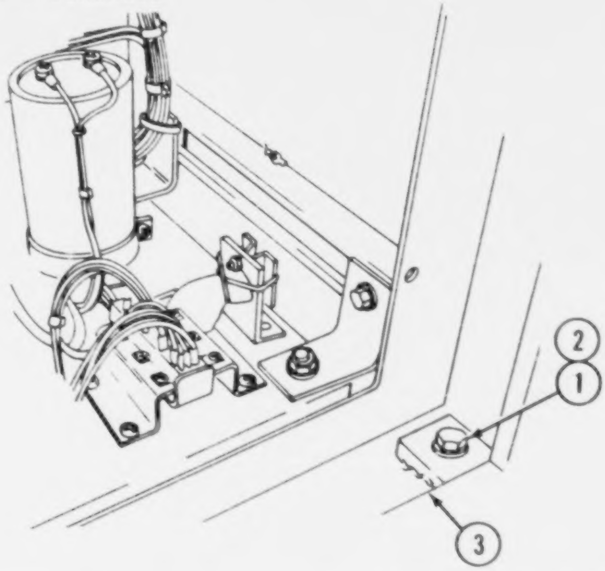
G. ELECTRICAL ENCLOSURE ASSEMBLY REMOVAL — Continued

10. REMOVE FOUR SCREWS FROM ELECTRICAL ENCLOSURE ASSEMBLY.
    - Remove four screws (1) and lock washers (2) from enclosure assembly (3). Use 9/16 inch socket with universal joint, 5 inch extension, and ratchet handle. Discard lock washers.



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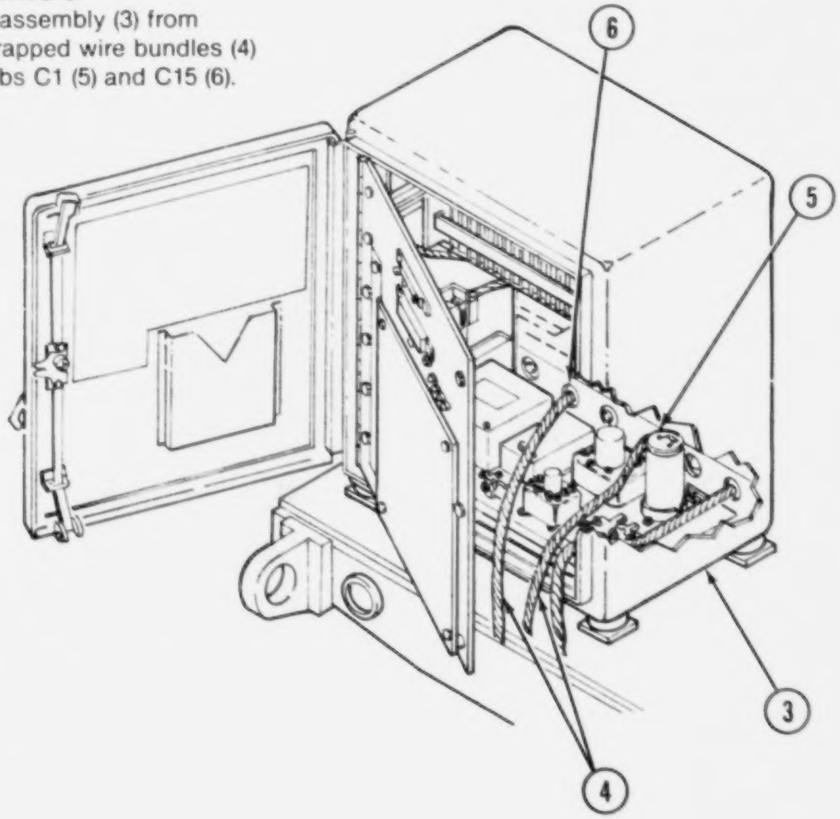
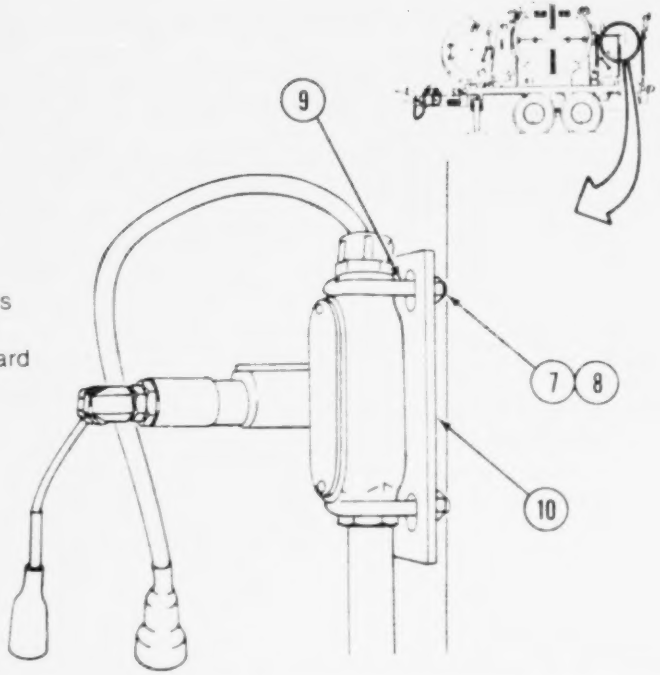
11. REMOVE ELECTRICAL ENCLOSURE ASSEMBLY FROM CHASSIS.
    - Remove enclosure assembly (3) from chassis, guiding wrapped wire bundles (4) through conduit hubs C1 (5) and C15 (6). Use two helpers.



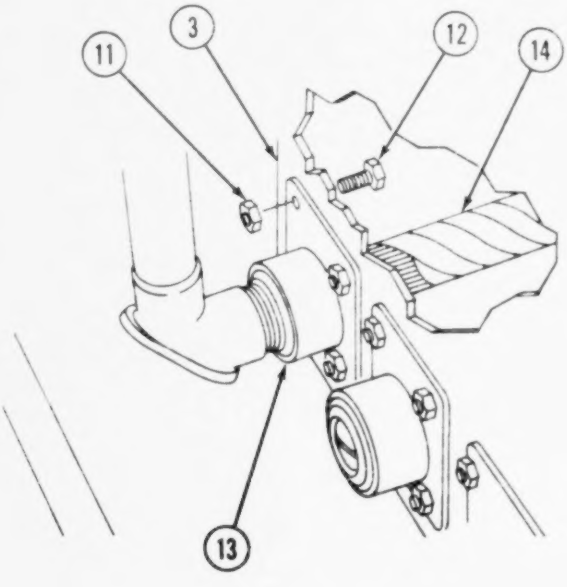
NOTE

If same enclosure assembly is to be installed, enclosure assembly removal is complete. If new electrical enclosure is to be installed, perform steps 12 thru 17.

12. REMOVE TWO MAIN CONTROL CONDUIT GROUP U-BOLTS FROM CONDUIT MOUNTING BRACKET.
    - Remove two self-locking nuts (7), washers (8), and U-bolt (9) from mounting bracket (10). Use 9/16 inch box end wrench. Discard self-locking nuts.
    - Repeat above removal steps for other U-bolt.



13. REMOVE CONDUIT HUB C6 WIRE BUNDLE LEADS FROM ELECTRICAL ENCLOSURE ASSEMBLY.
    - Remove four nuts (11), screws (12), Conduit Hub C6 (13), and C6 wire bundle leads (14) from enclosure assembly (3). Use 7/16 inch box end wrench and 7/16 inch socket with ratchet handle. Use helper.



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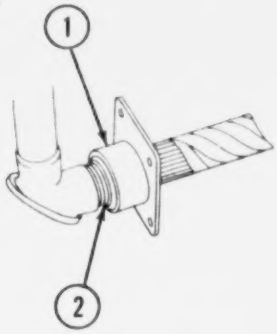
G. ELECTRICAL ENCLOSURE ASSEMBLY REMOVAL — Continued

14. REMOVE CONDUIT HUB C6 FROM MAIN CONTROL CONDUIT GROUP REDUCING BUSHING.
    - Remove Conduit Hub C6 (1) from reducing bushing (2). Use two pipe wrenches.



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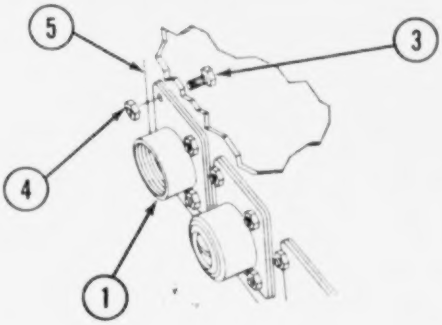
15. INSTALL CONDUIT HUB C6 ON ELECTRICAL ENCLOSURE ASSEMBLY.
    - Install Conduit Hub C6 (1), four screws (3), and nuts (4) on enclosure assembly (5). Use helper.



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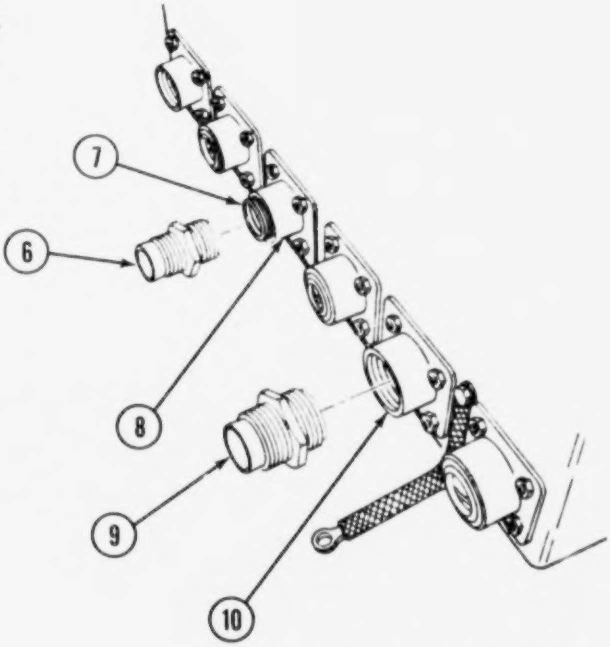
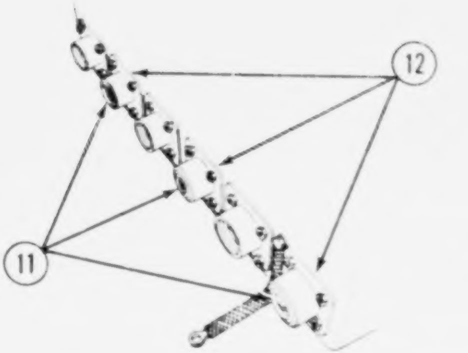
16. REMOVE TWO CONNECTOR BODIES AND REDUCER BUSHING FROM TWO ELECTRICAL ENCLOSURE CONDUIT HUBS.
    - Remove connector body (6) from Conduit Hub C1 reducer bushing (7). Use 15 inch adjustable wrench.
    - Remove reducer bushing (7) from Conduit Hub C1 (8). Use pipe wrench.
    - Remove connector body (9) from Conduit Hub C15 (10). Use 15 inch adjustable wrench.



17. REMOVE THREE CLOSE UP PLUGS FROM THREE ELECTRICAL ENCLOSURE CONDUIT HUBS.
    - Remove close up plugs (11) from conduit hubs (12). Use 3/8 inch flat tip screwdriver.

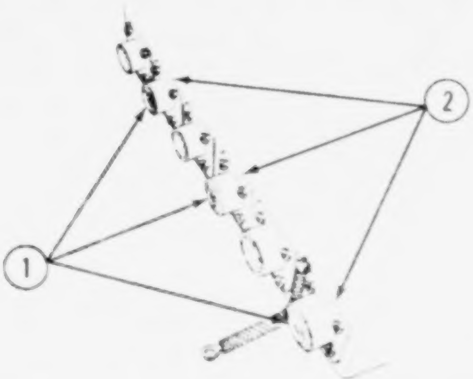


H. ELECTRICAL ENCLOSURE ASSEMBLY INSTALLATION

NOTE

If you are installing the same enclosure assembly that was previously removed, go to step 7.

1. INSTALL THREE CLOSE UP PLUGS IN THREE ELECTRICAL CONDUIT HUBS.
    - Install close up plugs (1) in conduit hubs (2). Use 3/8 inch flat tip screwdriver.



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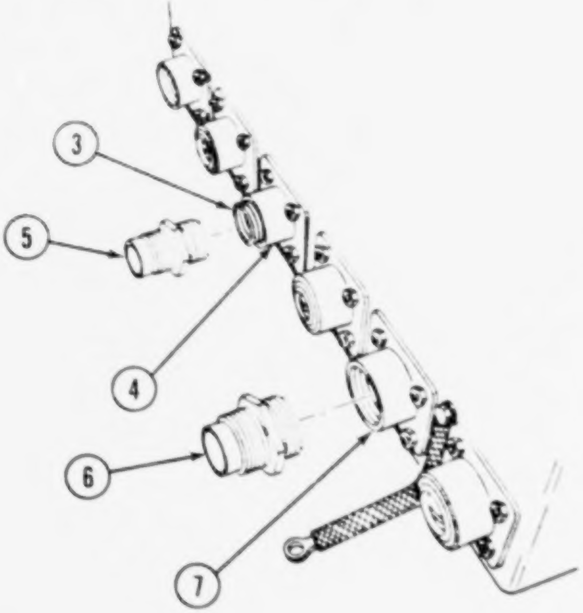
2. INSTALL TWO CONNECTOR BODIES AND REDUCER BUSHING IN TWO ELECTRICAL ENCLOSURE CONDUIT HUBS.
    - Install Conduit Hub C1 reducer bushing (3) in Conduit Hub C1 (4). Use pipe wrench.
    - Install C1 connector body (5) in C1 reducer bushing (3). Use 15 inch adjustable wrench.
    - Install C15 connector body (6) in Conduit Hub C15 (7). Use 15 inch adjustable wrench.



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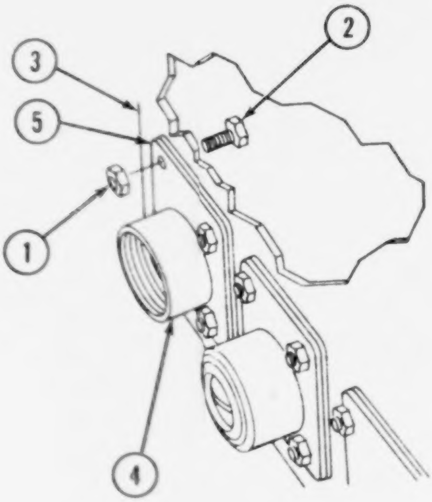
H. ELECTRICAL ENCLOSURE ASSEMBLY INSTALLATION — Continued

WARNING

Cleaning solvent can explode and can burn. Read warning on front page of this manual.

3. REMOVE CONDUIT HUB C6 FROM ELECTRICAL ENCLOSURE ASSEMBLY.
   - Remove four nuts (1) and screws (2) from enclosure assembly (3). Use 7/16 inch box end wrench and 7/16 inch socket with ratchet handle. Use helper.
   - Remove Conduit Hub C6 (4) from enclosure assembly (3). Use putty knife.
   - Remove gasket (5) from mating surfaces of enclosure assembly (3) and Conduit Hub C6 (4). Use putty knife. Discard gasket.
   - Clean gasket mating surfaces on enclosure assembly (3) and Conduit Hub C6 (4). Use putty knife, solvent, and rags.



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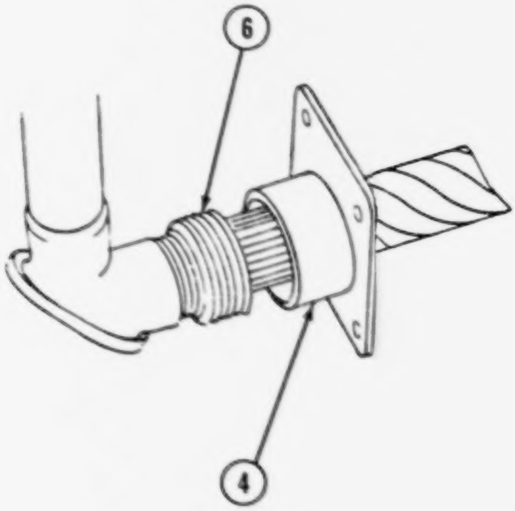
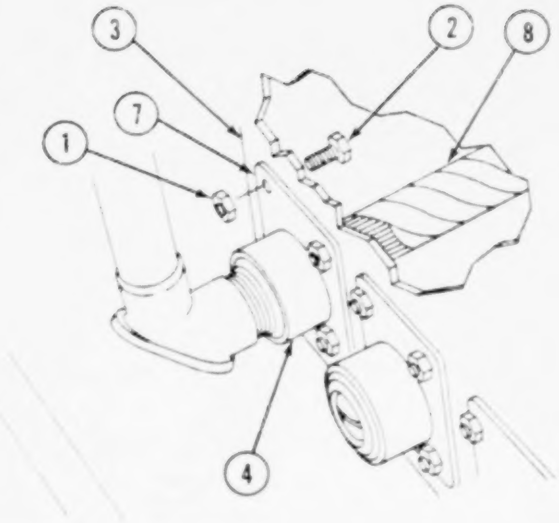
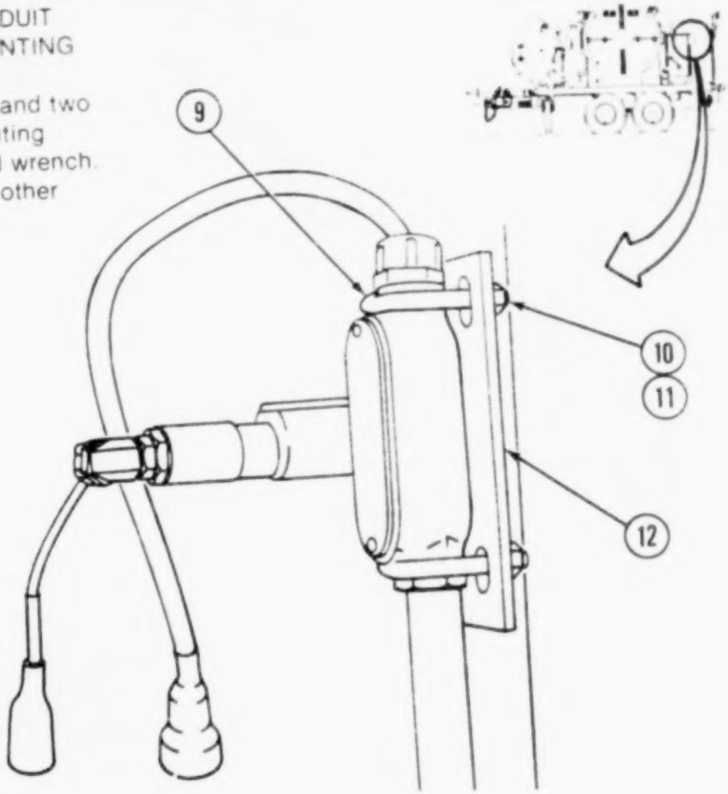
4. INSTALL CONDUIT HUB C6 ON MAIN CONTROL CONDUIT GROUP REDUCING BUSHING.
   - Install Conduit Hub C6 (4) on reducing bushing (6). Use two pipe wrenches.



5. INSTALL CONDUIT HUB C6 WIRE BUNDLE LEADS IN ELECTRICAL ENCLOSURE ASSEMBLY.
   - Apply sealing compound to both sides of new gasket (7).
   - Install gasket (7), C6 wire bundle leads (8), Conduit Hub C6 (4), four screws (2), and nuts (1) on enclosure assembly (3). Use 7/16 inch box end wrench and 7/16 inch socket with ratchet handle. Use helper.



6. INSTALL TWO MAIN CONTROL CONDUIT GROUP U-BOLTS ON CONDUIT MOUNTING BRACKET.
   - Install U-bolt (9), two washers (10), and two new self-locking nuts (11) on mounting bracket (12). Use 9/16 inch box end wrench.
   - Repeat above installation step for other U-bolt.



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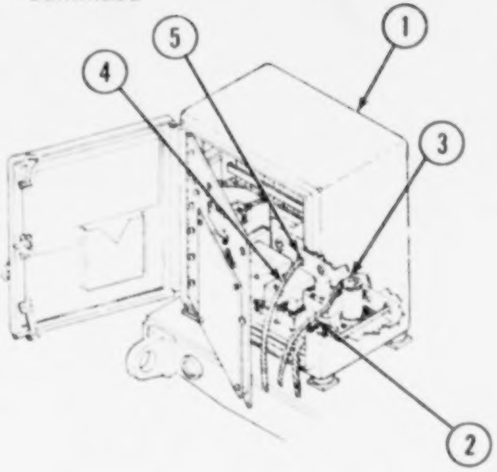
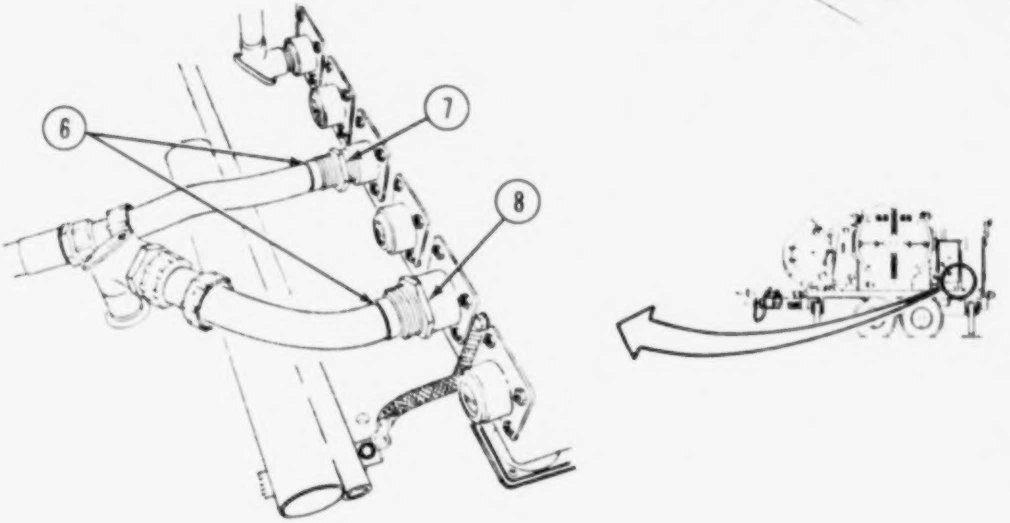
H. ELECTRICAL ENCLOSURE ASSEMBLY INSTALLATION — Continued

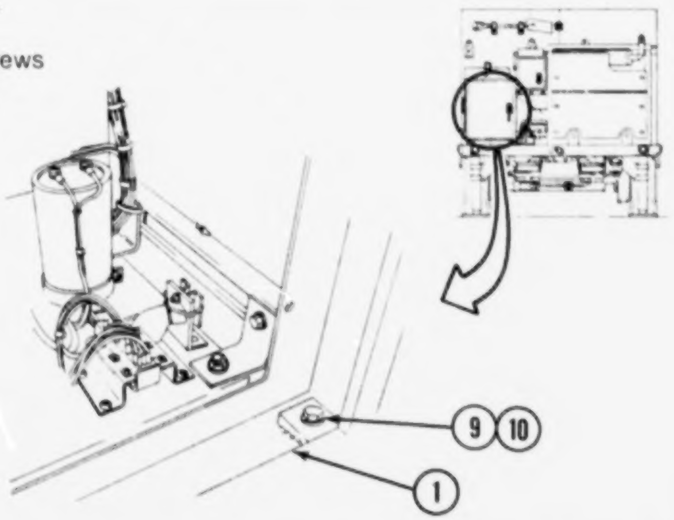
7. POSITION ELECTRICAL ENCLOSURE ASSEMBLY ON CHASSIS.
   - Position enclosure assembly (1) on chassis, as follows:
     - Guide C1 wire bundle leads (2) thru Conduit Hub C1 (3).
     - Guide C15 wire bundle leads (4) thru Conduit Hub C15 (5).
     - Insert flexible conduits (6) into C1 connector body (7) and C15 connector body (8).

   Use two helpers.

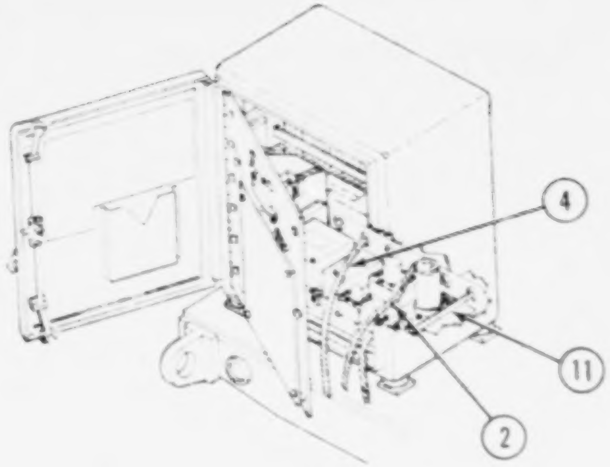




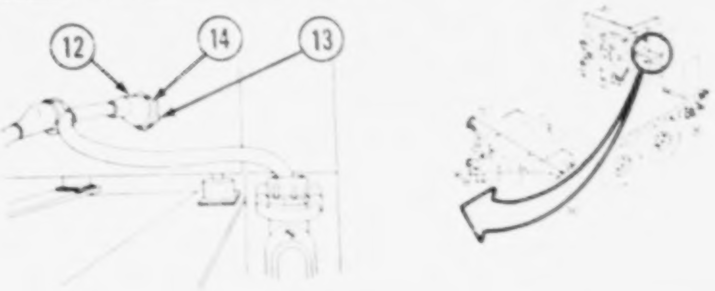
8. INSTALL FOUR SCREWS ON ELECTRICAL ENCLOSURE ASSEMBLY.
   - Install four new lock washers (9) and screws (10) on enclosure assembly (1). Use 9/16 inch socket with universal joint, 5 inch extension, and ratchet handle.



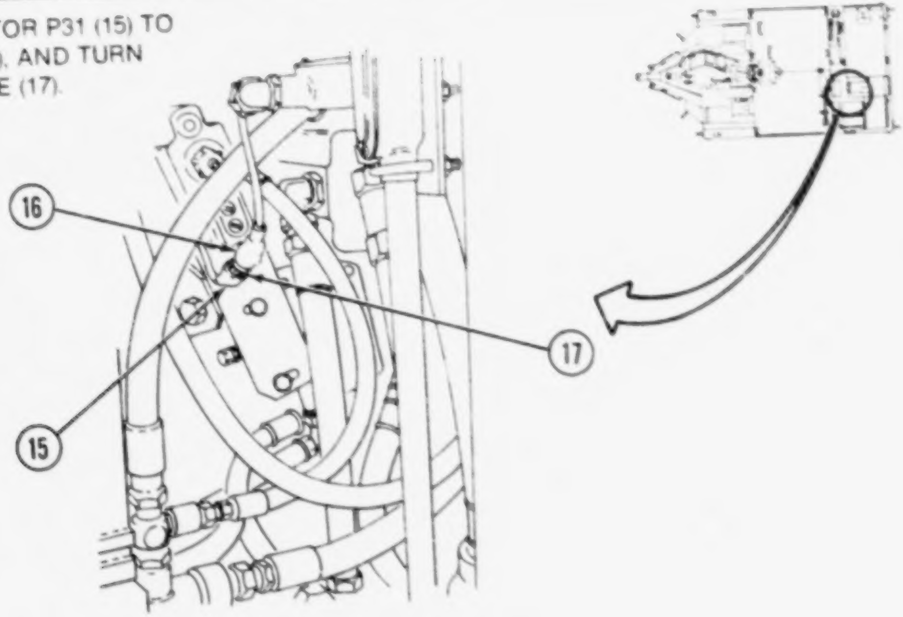
9. UNWRAP WIRE BUNDLE LEADS OF CONDUIT HUBS C6, C1, AND C15.
   - Remove masking tape from C6 wire bundle leads (11).
   - Repeat above unwrapping step for C1 wire bundle leads (2), and C15 wire bundle leads (4).



10. CONNECT CONNECTOR P35 (12) TO RECEPTACLE J35 (13), AND TURN CONNECTOR SLEEVE (14).



11. CONNECT CONNECTOR P31 (15) TO RECEPTACLE J31 (16), AND TURN CONNECTOR SLEEVE (17).



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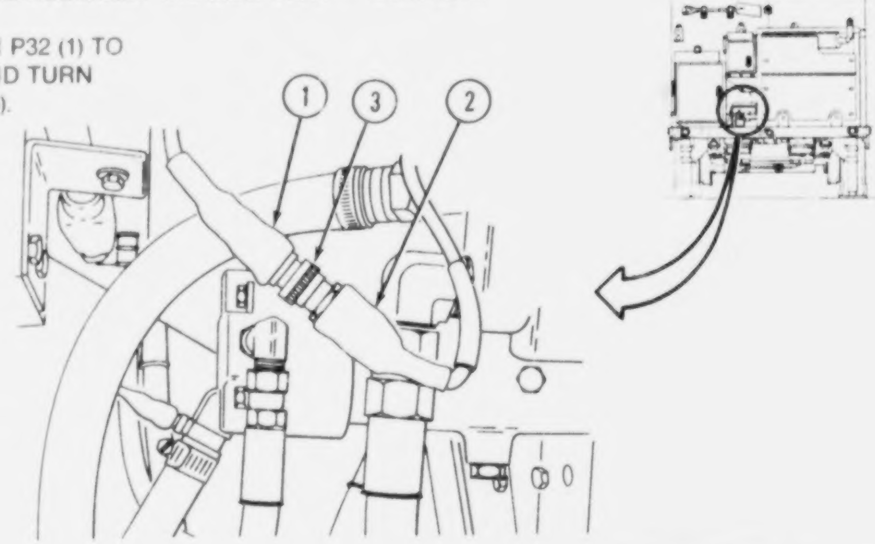
H. ELECTRICAL ENCLOSURE ASSEMBLY INSTALLATION — Continued

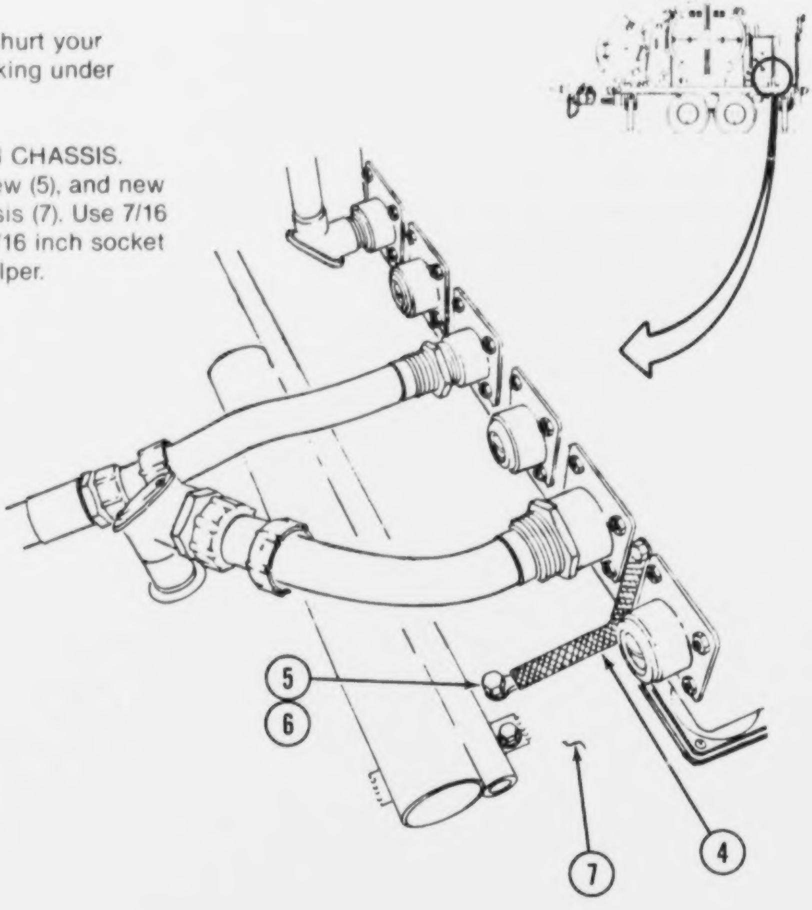
12. CONNECT CONNECTOR P32 (1) TO RECEPTACLE J32 (2), AND TURN CONNECTOR SLEEVE (3).



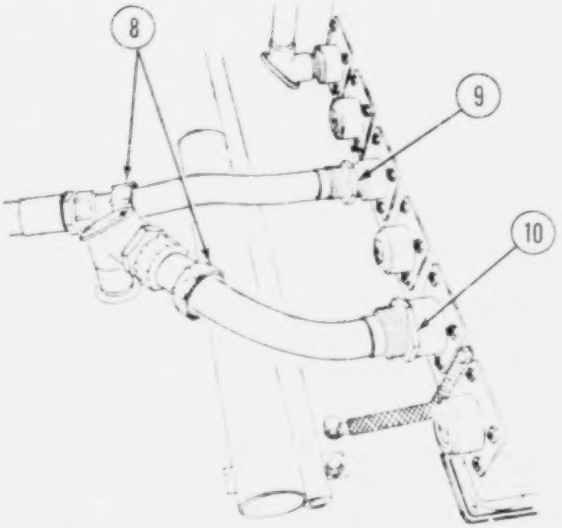
WARNING

Dirt and dispenser fluids may hurt your eyes. Wear goggles when working under the chassis.

13. INSTALL GROUND STRAP ON CHASSIS.
    - Install ground strap (4), screw (5), and new self-locking nut (6) on chassis (7). Use 7/16 inch box end wrench and 7/16 inch socket with ratchet handle. Use helper.



14. INSTALL LIQUIDTIGHT CONNECTOR HUBS ON CONDUIT HUB C1 CONNECTOR BODY AND CONDUIT HUB C15 CONNECTOR BODY.
    - Install connector hubs (8) on C1 connector body (9) and C15 connector body (10). Use two 15 inch adjustable wrenches.



15. INSTALL CONDUIT HUB C15 WIRE BUNDLE LEADS ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-20.)

16. INSTALL CONDUIT HUB C1 WIRE BUNDLE LEADS ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-13.)

17. INSTALL CONDUIT HUB C6 WIRE BUNDLE LEADS ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-8.)

NOTE

FOLLOW-ON MAINTENANCE:
Install Control Box Frame Assembly. (See TM 9-1095-205-20.)
Install Control Box Storage Assembly. (See TM 9-1095-205-20.)
Stow Manual Crank. (See TM 9-1095-205-10.)
Stow Rawhide Mallet. (See TM 9-1095-205-10.)
Stow Operator's Manual. (See TM 9-1095-205-10.)
Stow Tool Kit. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Adjust Power Module PS-1. (See Power Module PS-1 Adjustment, Page 11-179.)
Adjust Power Module PS-2. (See Power Module PS-2 Adjustment, Page 11-187.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

GO TO NEXT PAGE

11-5 ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS — Continued

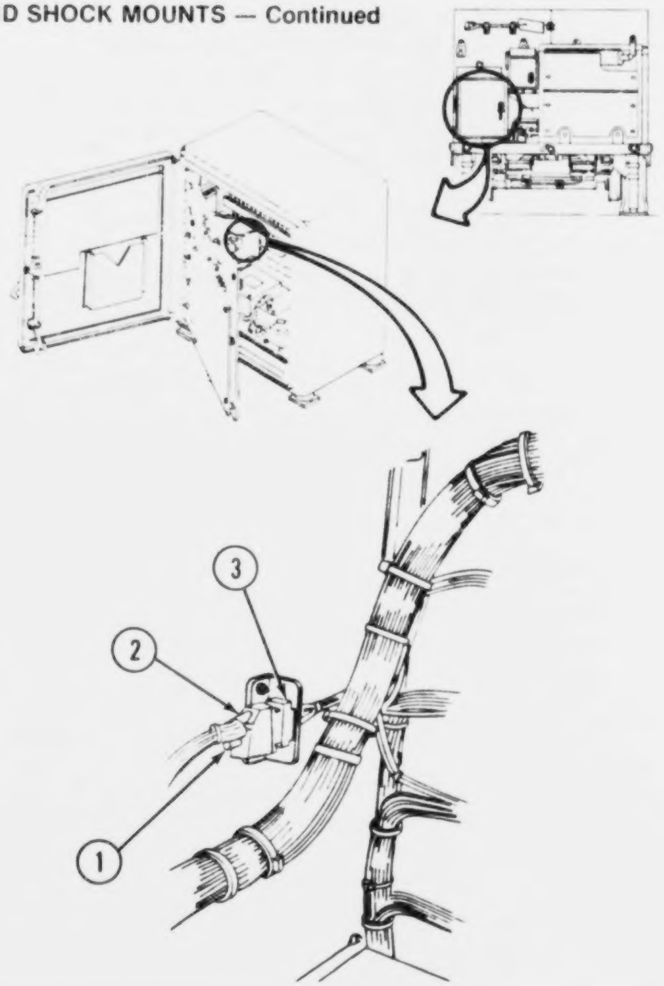
I. CABLE ASSEMBLY J80 REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-6.)

2. DISCONNECT CONNECTOR P80 FROM RECEPTACLE J80.
   - Turn jackscrew (1), and disconnect Connector P80 (2) from Receptacle J80 (3). Use 1/4 inch flat tip screwdriver.



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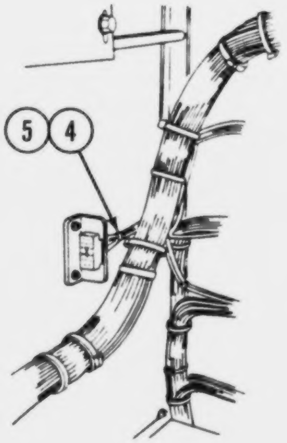
3. IDENTIFY 17 CABLE ASSEMBLY J80 LEADS ON TERMINAL PANEL.
   - Cut and remove cable ties (4) from Cable Assembly J80 (5). Use diagonal cutting pliers. Discard cable ties.
   - Tag and mark leads. (See Cable Assembly J80 Lead Destination List, Page 11-37.)



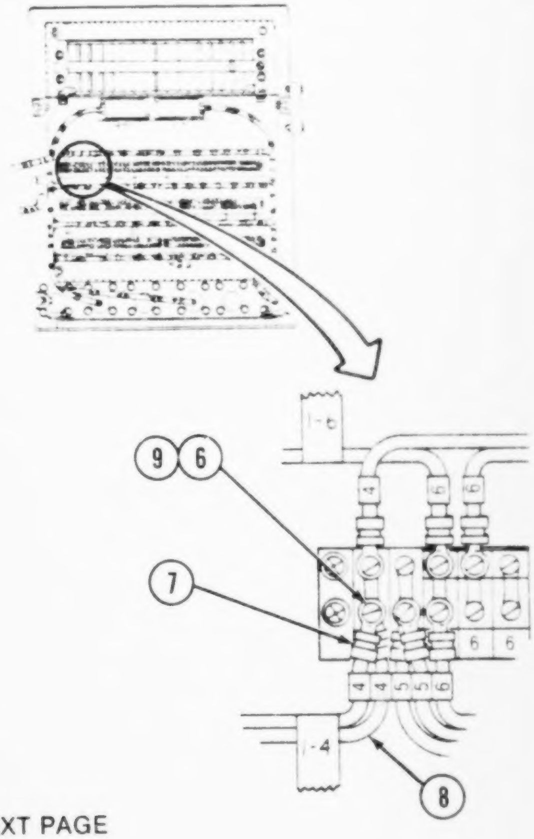
CABLE ASSEMBLY J80 LEAD DESTINATION LIST

Wire No.	From Connection	To Terminal Board 1TB Part No.	Terminal No.
4	J80 Pin D	1	4
6	J80 Pin A	1	6
11	J80 Pin L	1	11
52	J80 Pin M	3	52
53	J80 Pin P	3	53
2	J80 Pin H	6	2
55	J80 Pin K	5	55
82	J80 Pin E	5	82
85	J80 Pin C	5	85
87	J80 Pin F	5	87
17	J80 Pin J	1	17
101	J80 Pin S	6	101
102	J80 Pin R	6	102
103	J80 Pin U	6	103
104	J80 Pin T	6	104
105	J80 Pin B	6	105
106	J80 Pin N	6	106

NOTE

Cable Assembly J80 leads are removed the same way. Step 4 shows Lead No. 4.

4. REMOVE 17 CABLE ASSEMBLY J80 LEADS FROM TERMINAL BOARD 1TB.
   - Remove screw (6), Lead No. 4 (7), and untagged lead (8) from 1TB, Part 1, Terminal 4 (9). Use 1/4 inch flat tip screwdriver.
   - Install untagged lead (8) and screw (6) on 1TB, Part 1, Terminal 4 (9). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal steps for other 16 Cable Assembly J80 leads.



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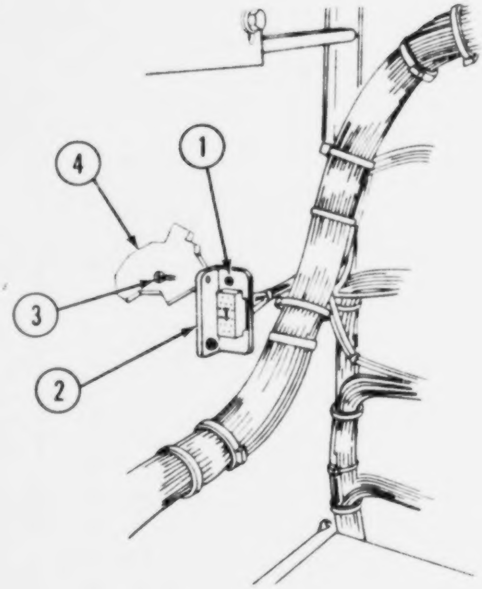
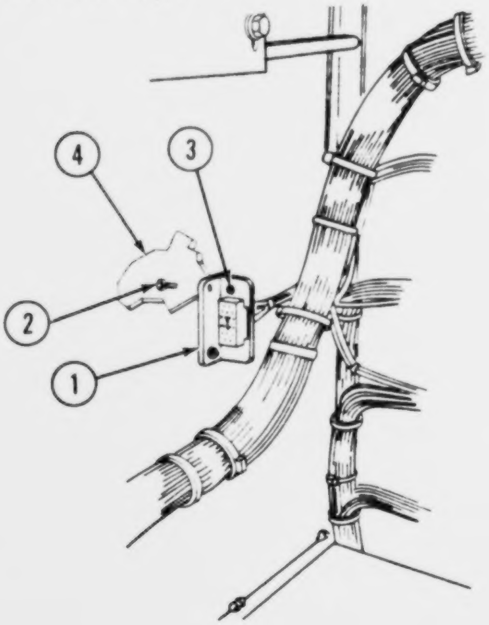
I. CABLE ASSEMBLY J80 REMOVAL — Continued

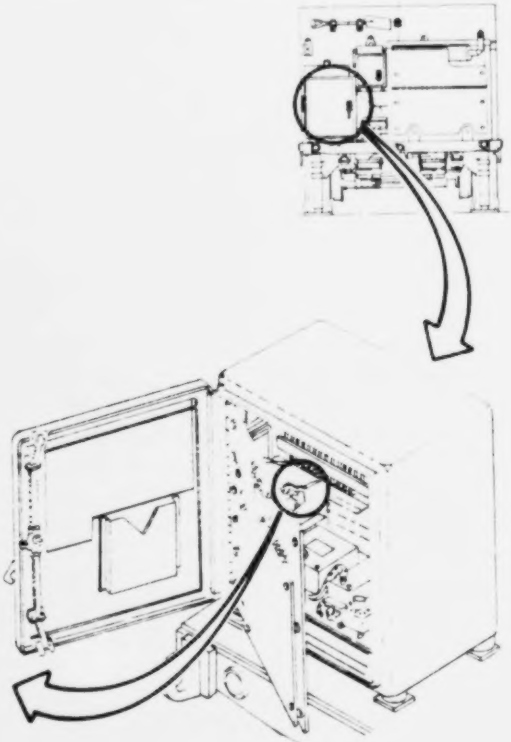
5. REMOVE CABLE ASSEMBLY J80 FROM ENCLOSURE ASSEMBLY WALL.
   - Remove two self-locking nuts (1), Cable Assembly J80 (2), and screws (3) from enclosure assembly wall (4). Use No. 2 cross tip screwdriver and 5/16 inch box end wrench. Use helper. Discard self-locking nuts.



J. CABLE ASSEMBLY J80 INSTALLATION

1. INSTALL CABLE ASSEMBLY J80 ON ENCLOSURE ASSEMBLY WALL.
   - Install Cable Assembly J80 (1), two screws (2), and new self-locking nuts (3) on enclosure assembly wall (4). Use No. 2 cross tip screwdriver and 5/16 inch box end wrench. Use helper.

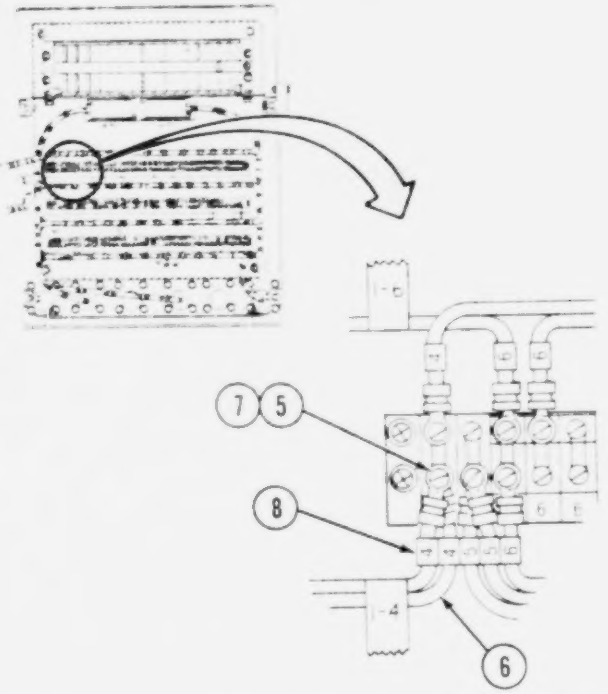




NOTE

Cable Assembly J80 leads are installed the same way. Step 2 shows Lead No. 4.

2. INSTALL 17 CABLE ASSEMBLY J80 LEADS ON TERMINAL BOARD 1TB.
   - Remove screw (5) and untagged lead (6) from 1TB, Part 1, Terminal 4 (7). Use 1/4 inch flat tip screwdriver.
   - Install untagged lead (6), Lead No. 4 (8), and screw (5) on 1TB, Part 1, Terminal 4 (7). Use 1/4 inch flat tip screwdriver.
   - Repeat above installation steps for other 16 Cable Assembly J80 leads. (See Cable Assembly J80 Lead Destination List, Page 11-37.)
   - Remove tags from leads.



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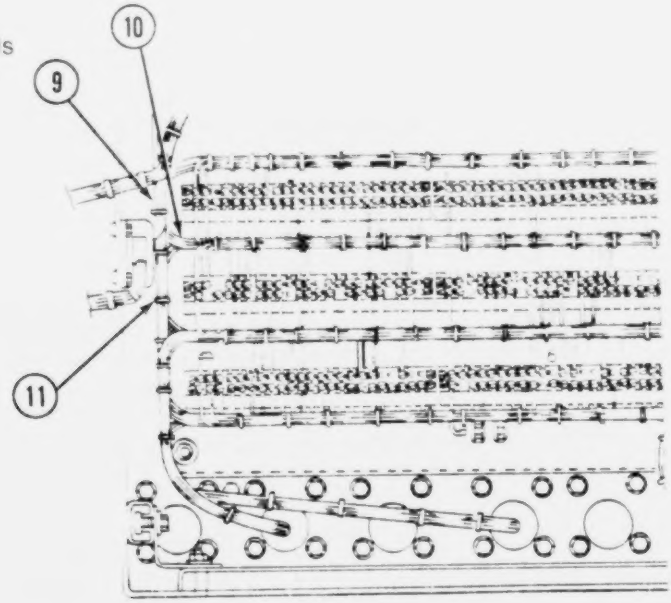
3. BUNDLE AND TIE 17 CABLE ASSEMBLY J80 LEADS ON TERMINAL PANEL.
   - Bundle 17 Cable Assembly J80 leads (9) with other terminal panel leads (10).
   - Install new cable ties (11) on bundled leads (9) and (10), as required. Use round nose pliers.



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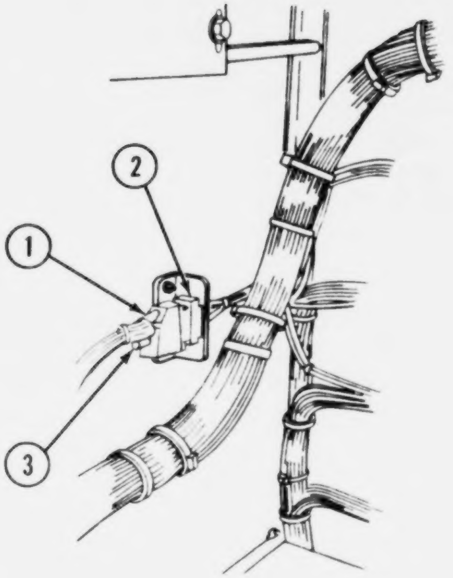
J. CABLE ASSEMBLY J80 INSTALLATION — Continued

4. CONNECT CONNECTOR P80 TO RECEPTACLE J80.
   - Connect Connector P80 (1) to Receptacle J80 (2), and turn jackscrew (3). Use 1/4 inch flat tip screwdriver.



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

K. OPERATING INSTRUCTIONS DECAL REMOVAL

NOTE

PRELIMINARY PROCEDURE:

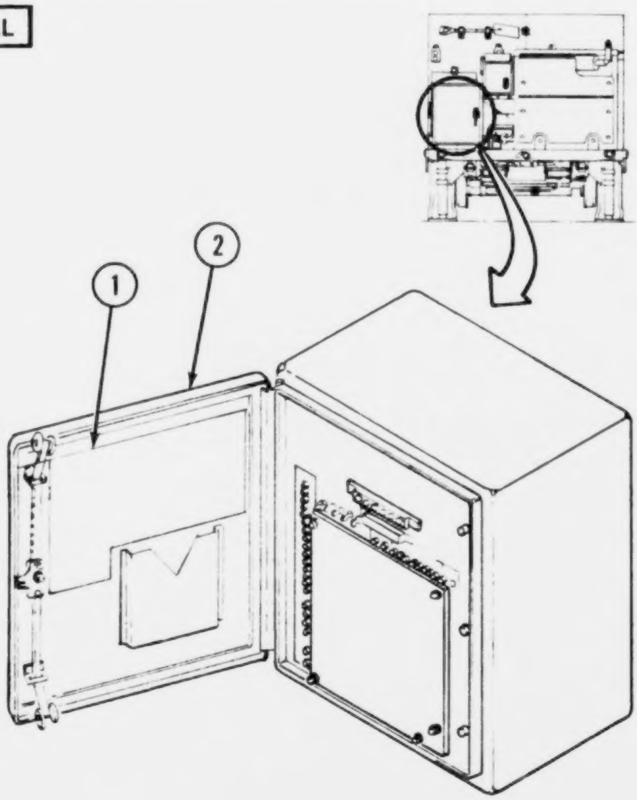
Open BITE Panel Door. (See TM 9-1095-205-10.)

WARNING

Cleaning solvent can explode and can burn. Read warning on front page of this manual.

REMOVE OPERATING INSTRUCTIONS DECAL FROM ELECTRICAL ENCLOSURE DOOR.

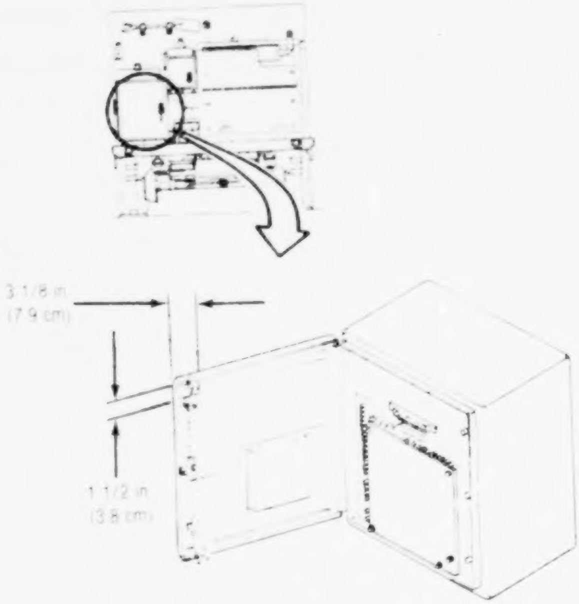
- Remove instructions decal (1) from enclosure door (2). Use putty knife, solvent, and rags. Discard decal.
- Clean old adhesive from enclosure door (2). Use solvent and rag.



L. OPERATING INSTRUCTIONS DECAL INSTALLATION

INSTALL OPERATING INSTRUCTIONS DECAL ON ELECTRICAL ENCLOSURE DOOR.

- Position instructions decal (1) 1 1/2 in. (3.8 cm) from top of door (2) and 3 1/8 in. (7.9 cm) from left edge of door. Use steel rule.
- Press adhesive surface of instructions decal (1) against door (2). Use clean, dry rag.



NOTE

FOLLOW-ON MAINTENANCE:
Close BITE Panel Door. (See TM 9-1095-205-10.)

M. ELECTRICAL ENCLOSURE ASSEMBLY DISASSEMBLY

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Unstow Tool Kit. (See TM 9-1095-205-10.)
Remove Operator Control Box From Storage Cabinet. (See TM 9-1095-205-10.)
Remove Cables From Storage Cabinet. (See TM 9-1095-205-10.)
Unstow Operator's Manual. (See TM 9-1095-205-10.)
Unstow Rawhide Mallet. (See TM 9-1095-205-10.)
Unstow Manual Crank. (See TM 9-1095-205-10.)
Remove Control Box Storage Assembly. (See TM 9-1095-205-20.)
Remove Control Box Frame Assembly. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

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M. ELECTRICAL ENCLOSURE ASSEMBLY DISASSEMBLY — Continued

1. REMOVE ELECTRICAL ENCLOSURE ASSEMBLY FROM DISPENSER. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-22.)
2. REMOVE CABLE ASSEMBLY J80 FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-36.)
3. REMOVE CIRCUIT CARD ASSEMBLIES FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE CIRCUIT CARD ASSEMBLIES, PAGE 11-265.)
4. REMOVE B.I.T.E. ALARM PANEL ASSEMBLY FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-195.)
5. REMOVE POWER PANEL ASSEMBLY FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE POWER PANEL ASSEMBLY, PAGE 11-111.)
6. REMOVE CARD RACK ASSEMBLY FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE CARD RACK ASSEMBLY, PAGE 11-103.)
7. REMOVE TERMINAL PANEL ASSEMBLY FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE TERMINAL PANEL ASSEMBLY, PAGE 11-49.)
8. REMOVE OPERATING INSTRUCTIONS DECAL FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-40.)

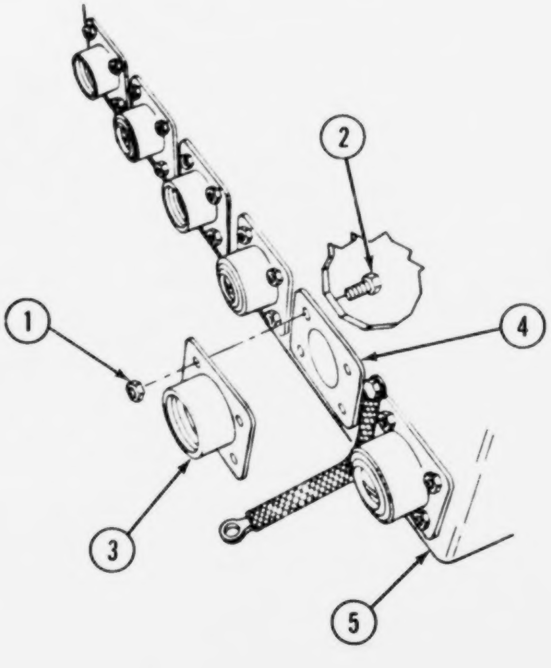
WARNING

Cleaning solvent can explode and can burn. Read warning on front page of this manual.

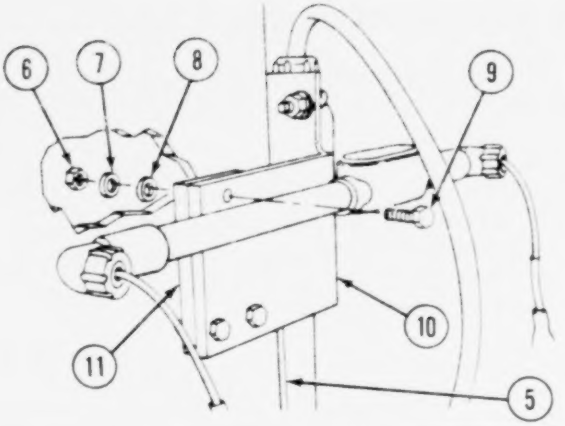
NOTE

Conduit hubs are removed the same way. Step 9 shows Conduit Hub C15.

9. REMOVE SIX CONDUIT HUBS FROM ELECTRICAL ENCLOSURE ASSEMBLY.
   - Remove four nuts (1), screws (2), Conduit Hub C15 (3), and gasket (4) from enclosure assembly (5). Use 7/16 inch box end wrench, 7/16 inch socket with ratchet handle, and putty knife. Use helper.
   - Clean gasket mating surfaces on enclosure assembly (5) and Conduit Hub C15 (3). Use putty knife, solvent, and rags.
   - Repeat above removal steps for other five conduit hubs.



10. REMOVE CONDUIT MOUNTING BRACKET AND SPACER FROM ELECTRICAL ENCLOSURE ASSEMBLY.
    - Remove three self-locking nuts (6), washers (7), sealing washers (8), screws (9), mounting bracket (10), and spacer (11) from enclosure assembly (5). Use 9/16 inch box end wrench and 9/16 inch socket with ratchet handle. Use helper. Discard self-locking nuts and sealing washers.



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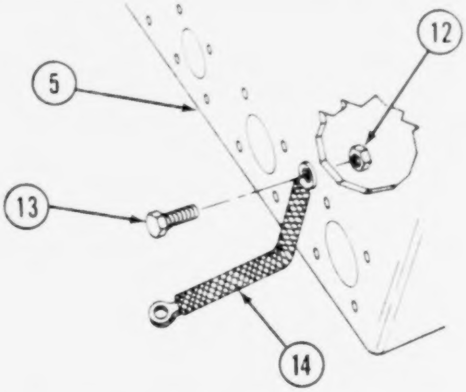
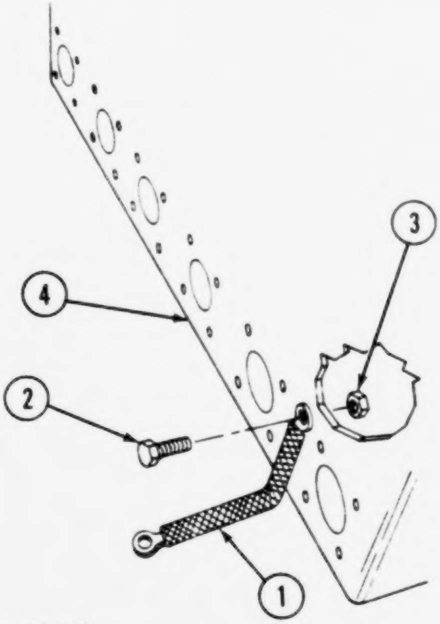
11. REMOVE GROUND STRAP FROM ELECTRICAL ENCLOSURE ASSEMBLY.
    - Remove self-locking nut (12), screw (13), and ground strap (14) from enclosure assembly (5). Use 7/16 inch box end wrench and 7/16 inch socket with ratchet handle. Use helper. Discard self-locking nut.



N. ELECTRICAL ENCLOSURE ASSEMBLY REASSEMBLY

1. INSTALL GROUND STRAP ON ELECTRICAL ENCLOSURE ASSEMBLY.
    - Install ground strap (1), screw (2), and new self-locking nut (3) on enclosure assembly (4). Use 7/16 inch box end wrench and 7/16 inch socket with ratchet handle. Use helper.



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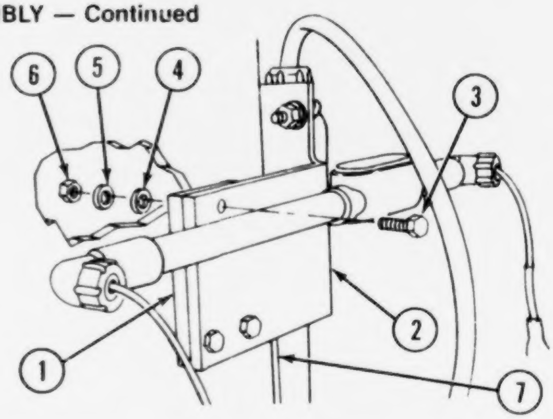
N. ELECTRICAL ENCLOSURE ASSEMBLY REASSEMBLY — Continued

2. INSTALL CONDUIT MOUNTING BRACKET AND SPACER ON ELECTRICAL ENCLOSURE ASSEMBLY.
   - Install spacer (1), mounting bracket (2), three screws (3), new sealing washers (4), washers (5), and new self-locking nuts (6) on enclosure assembly (7). Use 9/16 inch box end wrench and 9/16 inch socket with ratchet handle. Use helper.



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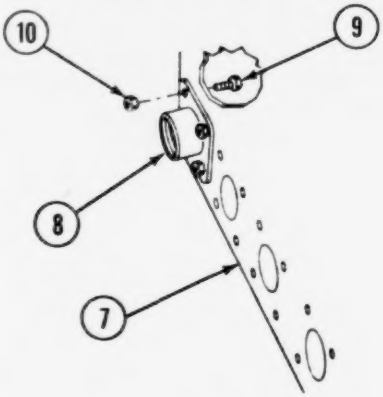
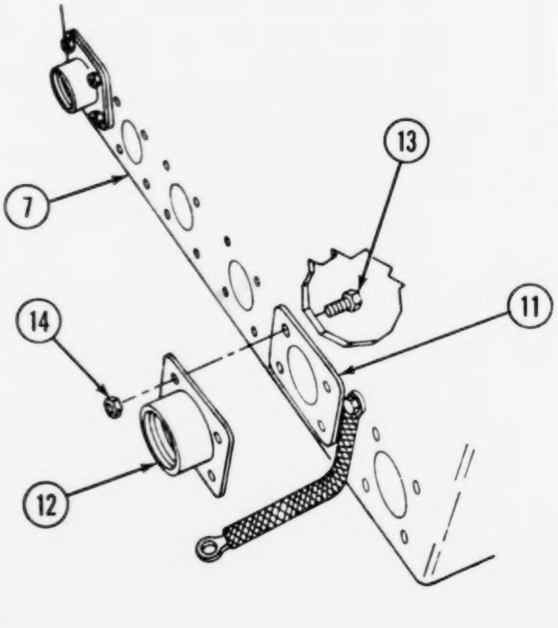
3. INSTALL CONDUIT HUB C6 ON ELECTRICAL ENCLOSURE ASSEMBLY.
   - Install Conduit Hub C6 (8), four screws (9), and nuts (10) on enclosure assembly (7). Use helper.



NOTE

Five conduit hubs are installed the same way. Step 4 shows Conduit Hub C15.

4. INSTALL FIVE CONDUIT HUBS ON ELECTRICAL ENCLOSURE ASSEMBLY.
   - Apply sealing compound to both sides of new gasket (11).
   - Install gasket (11), Conduit Hub C15 (12), four screws (13), and nuts (14) on enclosure assembly (7). Use 7/16 inch box end wrench and 7/16 inch socket with ratchet handle. Use helper.
   - Repeat above installation steps for other four conduit hubs.



5. INSTALL OPERATING INSTRUCTIONS DECAL ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-41.)
6. INSTALL TERMINAL PANEL ASSEMBLY ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE TERMINAL PANEL ASSEMBLY, PAGE 11-49.)
7. INSTALL CARD RACK ASSEMBLY ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE CARD RACK ASSEMBLY, PAGE 11-103.)
8. INSTALL POWER PANEL ASSEMBLY ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE POWER PANEL ASSEMBLY, PAGE 11-111.)
9. INSTALL B.I.T.E. ALARM PANEL ASSEMBLY ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-195.)
10. INSTALL CIRCUIT CARD ASSEMBLIES ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE CIRCUIT CARD ASSEMBLIES, PAGE 11-265.)
11. INSTALL CABLE ASSEMBLY J80 ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-38.)
12. INSTALL ELECTRICAL ENCLOSURE ASSEMBLY ON DISPENSER. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-29.)

NOTE

FOLLOW-ON MAINTENANCE:
Install Control Box Frame Assembly. (See TM 9-1095-205-20.)
Install Control Box Storage Assembly. (See TM 9-1095-205-20.)
Stow Manual Crank. (See TM 9-1095-205-10.)
Stow Rawhide Mallet. (See TM 9-1095-205-10.)
Stow Operator's Manual. (See TM 9-1095-205-10.)
Stow Tool Kit. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Adjust Power Module PS-1. (See Power Module PS-1 Adjustment, Page 11-179.)
Adjust Power Module PS-2. (See Power Module PS-2 Adjustment, Page 11-187.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

GO TO NEXT PAGE

11-5 ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS — Continued

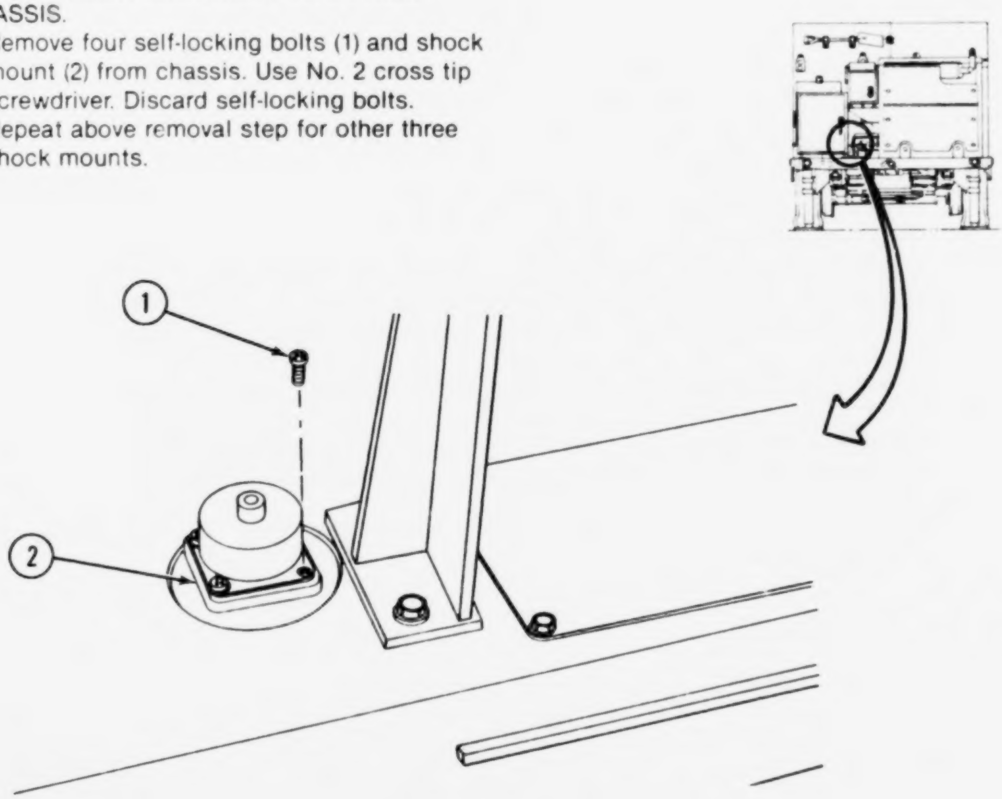
O. SHOCK MOUNTS REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Unstow Tool Kit. (See TM 9-1095-205-10.)
Remove Operator Control Box From Storage Cabinet. (See TM 9-1095-205-10.)
Remove Cables From Storage Cabinet. (See TM 9-1095-205-10.)
Unstow Operator's Manual. (See TM 9-1095-205-10.)
Unstow Rawhide Mallet. (See TM 9-1095-205-10.)
Unstow Manual Crank. (See TM 9-1095-205-10.)
Remove Control Box Storage Assembly. (See TM 9-1095-205-20.)
Remove Control Box Frame Assembly. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. REMOVE ELECTRICAL ENCLOSURE ASSEMBLY FROM DISPENSER. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-22.)

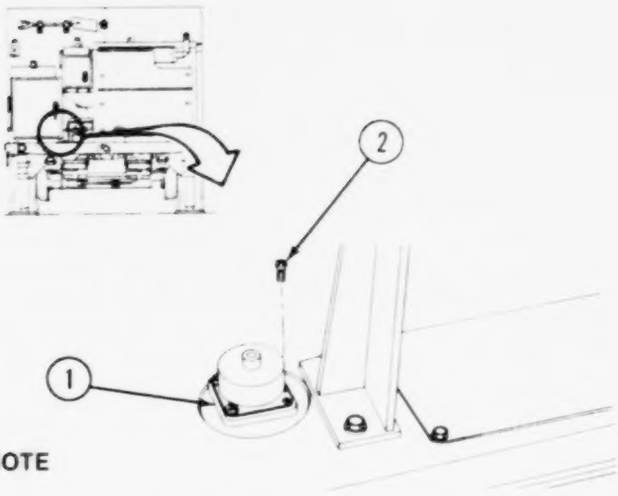
2. REMOVE FOUR SHOCK MOUNTS FROM CHASSIS.
   - Remove four self-locking bolts (1) and shock mount (2) from chassis. Use No. 2 cross tip screwdriver. Discard self-locking bolts.
   - Repeat above removal step for other three shock mounts.



P. SHOCK MOUNTS INSTALLATION

1. INSTALL FOUR SHOCK MOUNTS ON CHASSIS.
   - Install shock mount (1) and four new self-locking bolts (2) on chassis. Use No. 2 cross tip screwdriver.
   - Repeat above installation step for other three shock mounts.

2. INSTALL ELECTRICAL ENCLOSURE ASSEMBLY ON DISPENSER. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-29.)



NOTE

FOLLOW-ON MAINTENANCE:

Install Control Box Frame Assembly. (See TM 9-1095-205-20.)
Install Control Box Storage Assembly. (See TM 9-1095-205-20.)
Stow Manual Crank. (See TM 9-1095-205-10.)
Stow Rawhide Mallet. (See TM 9-1095-205-10.)
Stow Operator's Manual. (See TM 9-1095-205-10.)
Stow Tool Kit. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Adjust Power Module PS-1. (See Power Module PS-1 Adjustment, Page 11-179.)
Adjust Power Module PS-2. (See Power Module PS-2 Adjustment, Page 11-187.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

END OF TASK

11-6 TERMINAL PANEL ASSEMBLY

DESCRIPTION

This task covers:
A. CABLE ASSEMBLY P1 REMOVAL (p 11-51)
B. CABLE ASSEMBLY P1 INSTALLATION (p 11-54)
C. DIODES AND CAPACITOR REMOVAL (p 11-56)
D. DIODES AND CAPACITOR INSTALLATION (p 11-56)
E. TERMINAL BOARDS AND MARKER STRIPS REMOVAL (p 11-59)
F. TERMINAL BOARDS AND MARKER STRIPS INSTALLATION (p 11-60)
G. TERMINAL PANEL ASSEMBLY REMOVAL (p 11-61)
H. TERMINAL PANEL ASSEMBLY INSTALLATION (p 11-63)

INITIAL SETUP

Tools and Special Tools:
General mechanic's tool kit
  5180-00-177-7033:
    5 inch extension
    3/8 inch flat tip screwdriver
    7/16 inch socket
    9/16 inch socket
    Ratchet handle
    Diagonal cutting pliers
    1/4 inch flat tip screwdriver
    No. 2 cross tip screwdriver
    Round nose pliers
    6 inch steel rule
Crimping tool 5120-00-846-6284
Goggles 4240-00-269-7912

Materials/Parts:
Lock washer (24) 5310-00-579-0079
Cable tie 5975-01-013-2742
Cable tie 5975-00-727-5153
Cable tie MS3367-5-9

Personnel Required:
Electrical repairer

References:
TM 9-1095-205-10
TM 9-1095-205-20
CARD RACK ASSEMBLY, Page 11-103
CIRCUIT CARD ASSEMBLIES, Page 11-265
ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, Page 11-5

OVERVIEW

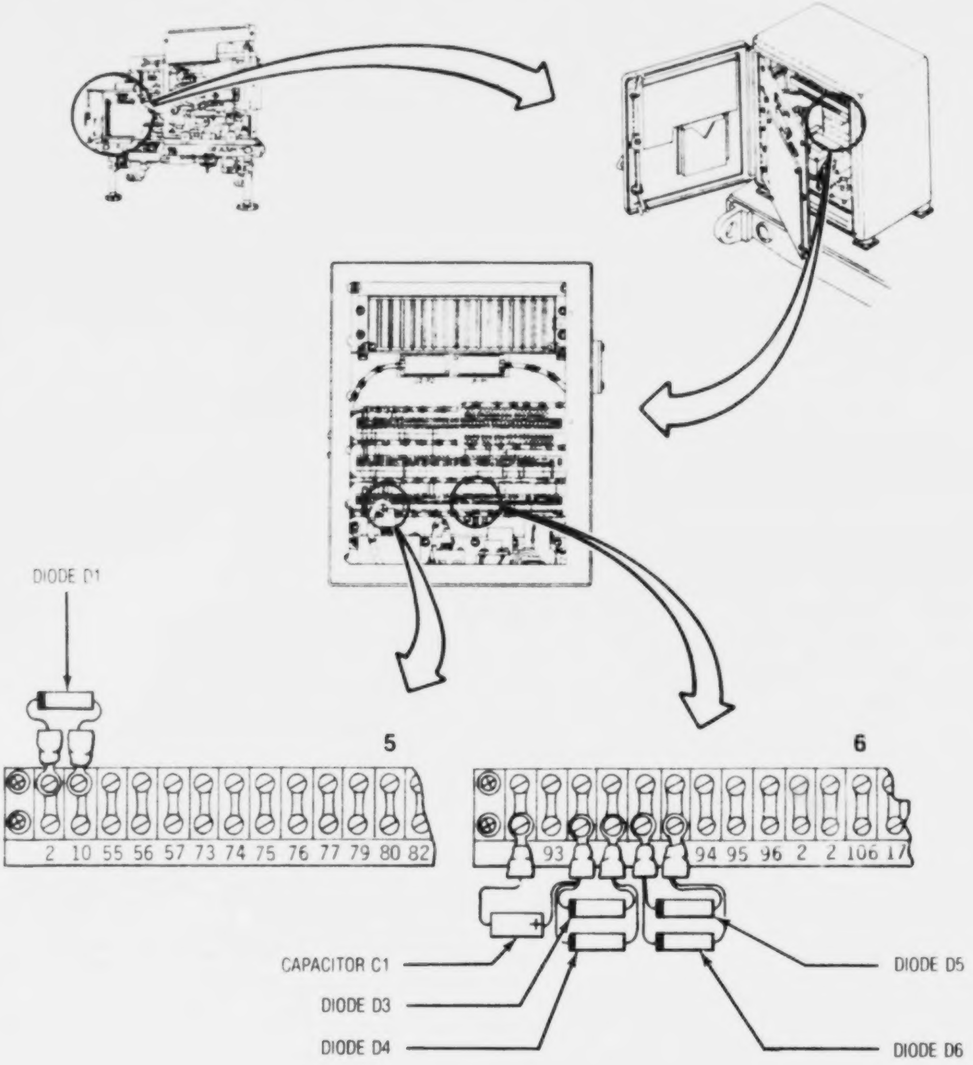
The terminal panel assembly consists of the following parts:
One card rack assembly (19200) 9290234
One Cable Assembly P1 (19200) 9290422
Five diodes (81349) TX1N4383
One capacitor (81349) M39003/01-3026
Six terminal boards (81349) 37TB-23
Six marker strips (19200) 9290417, 9290418, 9290419, 9290420, 9290421, 9290614

You may replace each part singly, or the terminal panel as a unit. If you are replacing the terminal panel assembly as a unit, go to G. Terminal Panel Assembly Removal, Page 11-61.

GO TO NEXT PAGE

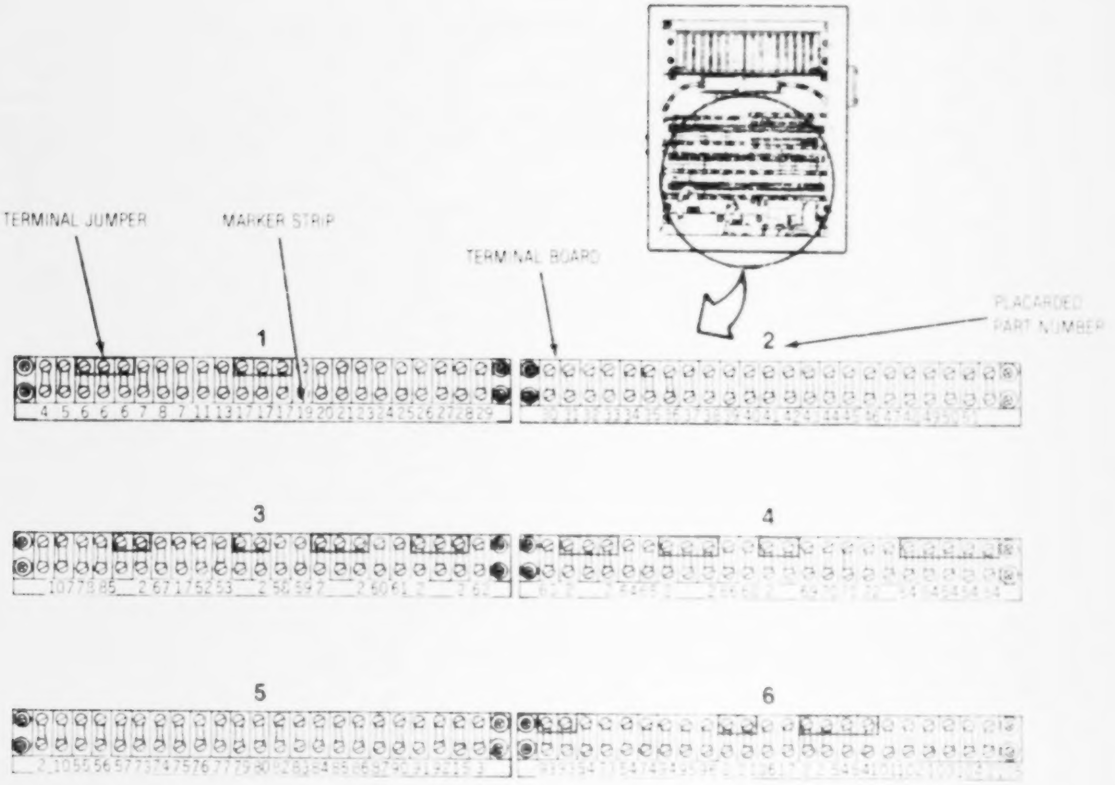
OVERVIEW — Continued

Use the following Terminal Panel Diodes and Capacitor Locator to help you find the five diodes and one capacitor.



Terminal Panel Diodes and Capacitor Locator

Terminal Board 1TB consists of six terminal boards and marker strips on the terminal panel assembly. Each terminal board has a number, from 1 to 6, placarded above it. This number is the Terminal Board 1TB part number. Each terminal board is mounted over a different marker strip that identifies each terminal. Use the following Terminal Board, Marker Strip, and Terminal Jumper Locator to help you find part and terminal numbers.



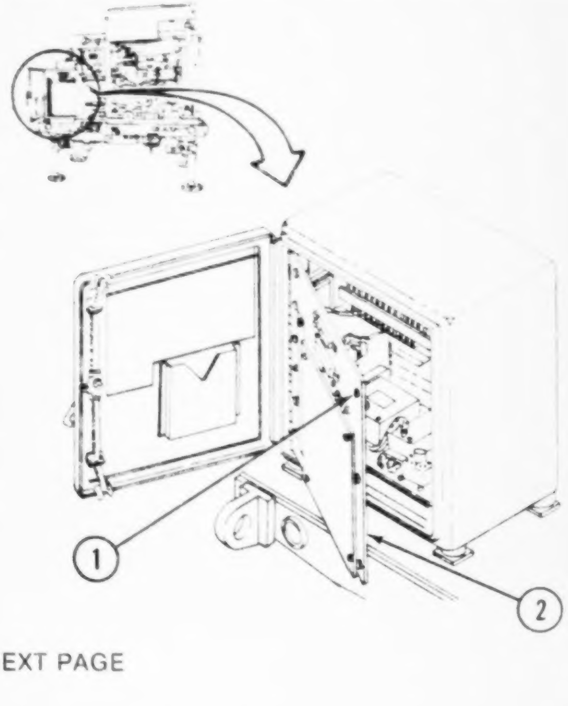
Terminal Board, Marker Strip, and Terminal Jumper Locator

A. CABLE ASSEMBLY P1 REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Loosen three panel fasteners (1), and open BACP (2). Use 3/8 inch flat tip screwdriver.



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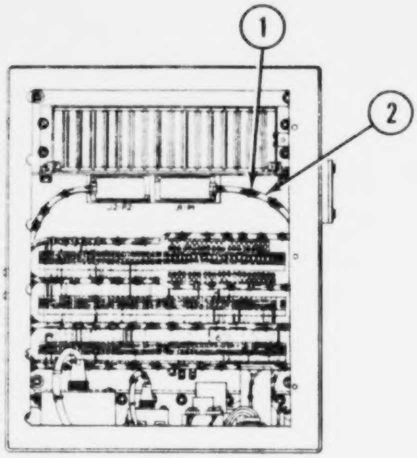
A. CABLE ASSEMBLY P1 REMOVAL — Continued

2. IDENTIFY 75 CABLE ASSEMBLY P1 LEADS.
   - Cut and remove cable ties (1) from Cable Assembly P1 (2). Use diagonal cutting pliers. Discard cable ties.
   - Tag and mark leads. (See following Cable Assembly P1 Lead Destination List.)



CABLE ASSEMBLY P1 LEAD DESTINATION LIST

From	To		From	To	
P1 Contact No.	1TB Part No.	1TB Terminal No.	P1 Contact No.	1TB Part No.	1TB Terminal No.
D10	3	108	J15	1	17
L15	3	107	A15	1	19
N15	3	107	T10	1	21
U1	3	78	S11	1	23
K14	3	2	S15	1	24
E9	3	2	T12	1	25
G13	3	2	U9	1	26
G9	4	2	P1	1	27
J13	4	2	S9	1	28
H14	4	2	O10	1	29
O6	3	88	S13	2	30
G7	3	67	T2	2	31
J1	3	58	R4	2	32
M10	3	60	R2	2	33
G5	3	61	T4	2	34
M12	4	63	S5	2	35
H2	4	64	O2	2	36
K12	4	65	S1	2	37
N5	4	66	O12	2	38
R6	4	68	T6	2	39
N3	4	69	K4	2	40
N9	4	70	N1	2	41
G3	4	71	K2	2	43
L13	4	72	G1	2	43
S3	1	4	U13	2	44
E11	1	6	P3	2	45
G11	1	17	P15	2	46
G15	1	17			

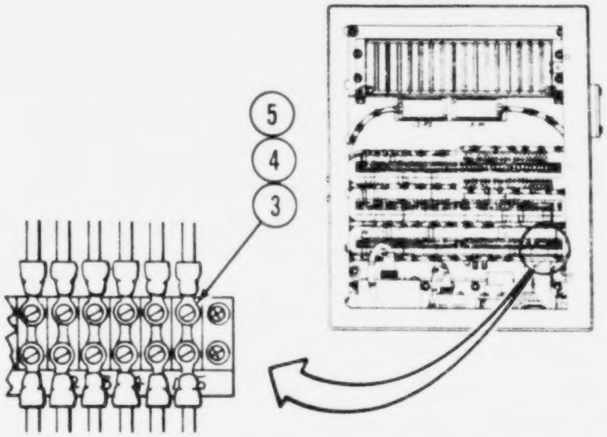
CABLE ASSEMBLY P1 LEAD DESTINATION LIST — Continued

From	To		From	To	
P1 Contact No.	1TB Part No.	1TB Terminal No.	P1 Contact No.	1TB Part No.	1TB Terminal No.
L1	2	47	P7	5	83
H4	2	48	R10	5	84
J3	2	49	M8	5	85
N7	2	50	D14	5	86
H6	5	2	H8	5	92
O14	5	73	R8	6	93
P13	5	74	L3	6	93
P11	5	75	C5	6	94
P5	5	76	C7	6	93
U3	5	Spare	D12	6	96
T14	5	Spare	C9	6	105
M6	5	82			

NOTE

Cable Assembly P1 leads are removed the same way. Step 3 shows Lead No. 105.

3. REMOVE 75 CABLE ASSEMBLY P1 LEADS FROM TERMINAL BOARD 1TB.
   - Remove screw (3) and Lead No. 105 (4) from Terminal Board 1TB, Part 6, Terminal 105 (5). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal step for other 74 P1 leads.



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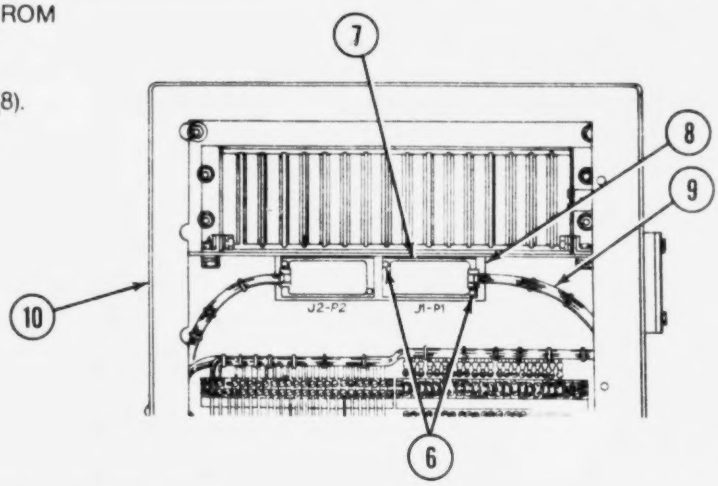
4. DISCONNECT PLUG CONNECTOR P1 FROM RECEPTACLE J1.
   - Loosen screws (6), and disconnect Connector P1 (7) from Receptacle J1 (8). Use 1/4 inch flat tip screwdriver.
   - Remove Cable Assembly P1 (9) from electrical enclosure assembly (10).



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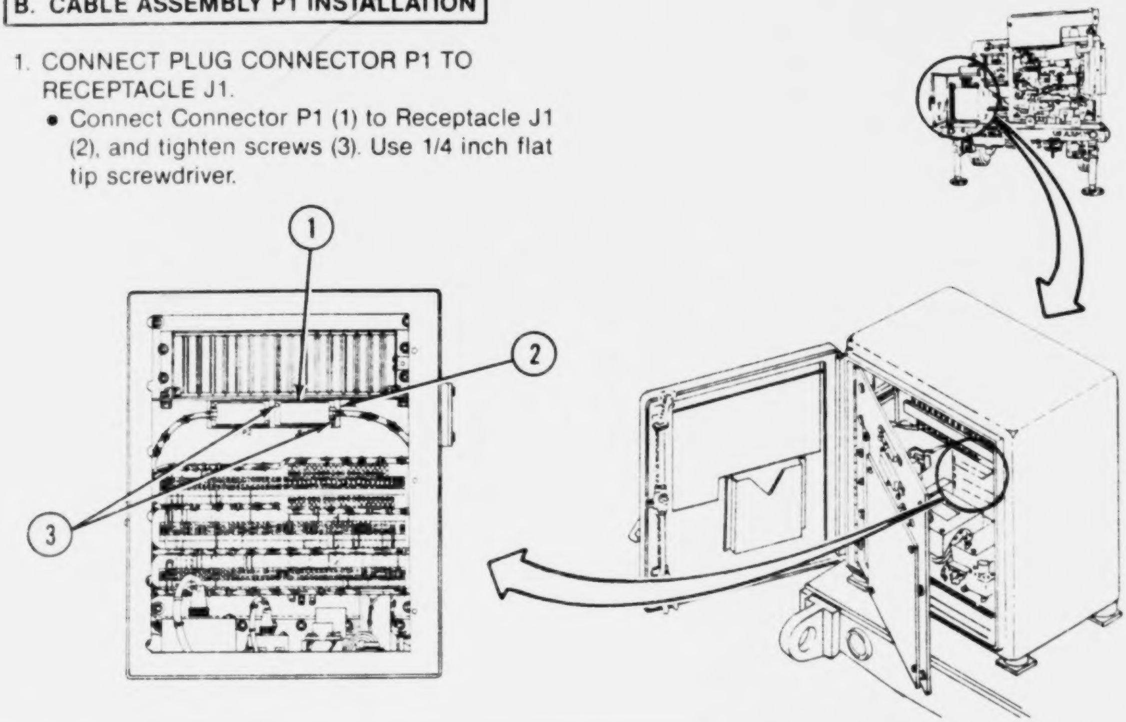
11-6 TERMINAL PANEL ASSEMBLY — Continued

B. CABLE ASSEMBLY P1 INSTALLATION

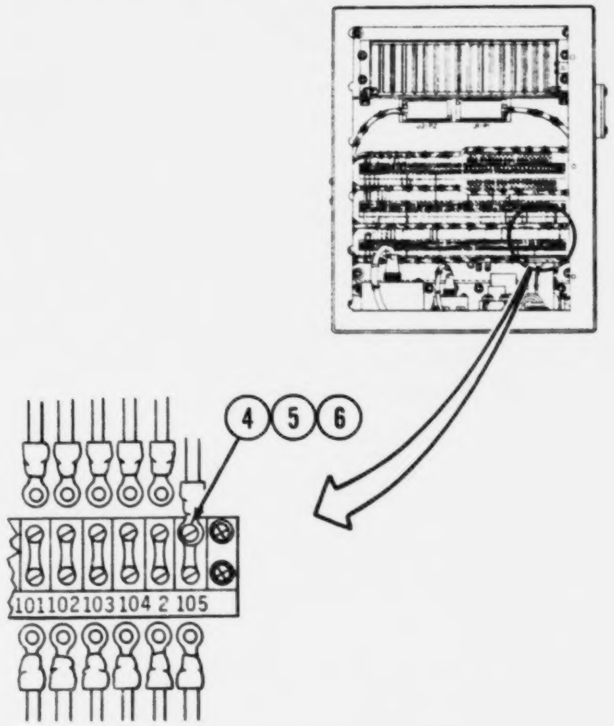
1. CONNECT PLUG CONNECTOR P1 TO RECEPTACLE J1.
   - Connect Connector P1 (1) to Receptacle J1 (2), and tighten screws (3). Use 1/4 inch flat tip screwdriver.



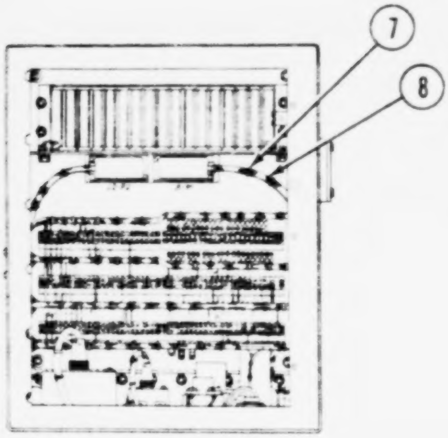
NOTE

Cable Assembly P1 leads are installed the same way. Step 2 shows Lead No. 105.

2. INSTALL 75 CABLE ASSEMBLY P1 LEADS ON TERMINAL BOARD 1TB.
   - Install Lead No. 105 (4) and screw (5) on Terminal Board 1TB, Part 6, Terminal 105 (6). Use 1/4 inch flat tip screwdriver.
   - Repeat above installation step for other 74 P1 leads. (See Cable Assembly P1 Lead Destination List, Page 11-52.)
   - Remove tags from leads.



3. INSTALL NEW CABLE TIES ON CABLE ASSEMBLY P1.
   - Install new cable ties (7) on Cable Assembly P1 (8). Use round nose pliers.



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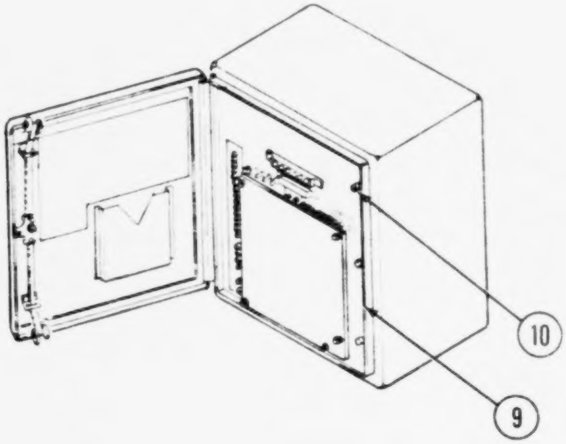
4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Close BACP (9), and tighten three panel fasteners (10). Use 3/8 inch flat tip screwdriver.



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

GO TO NEXT PAGE

11-6 TERMINAL PANEL ASSEMBLY — Continued

C. DIODES AND CAPACITOR REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE TERMINAL PANEL ASSEMBLY, PAGE 11-51.)

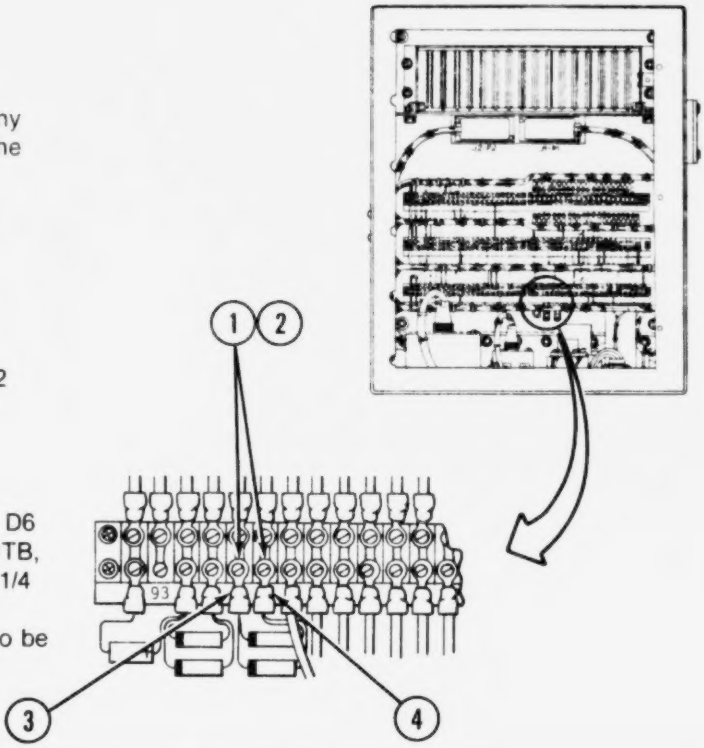
NOTE

Diodes D3 and D4 are removed from Terminal Board 1TB as a pair, as are Diodes D5 and D6. If you are replacing any of these diodes, discard both diodes in the pair, and prepare new diodes for installation.

• • • •

Diode D1, Diodes D3 and D4, Diodes D5 and D6, and Capacitor C1 are removed from terminal board the same way. Step 2 shows Diodes D5 and D6.

2. REMOVE DIODES D5 AND D6 FROM TERMINAL BOARD 1TB.
   - Remove screws (1) and Diodes D5 and D6 terminal lugs (2) from Terminal Board 1TB, Part 6, Terminals 54 (3) and 74 (4). Use 1/4 inch flat tip screwdriver.
   - Discard Diodes D5 and D6 if either is to be replaced.



D. DIODES AND CAPACITOR INSTALLATION

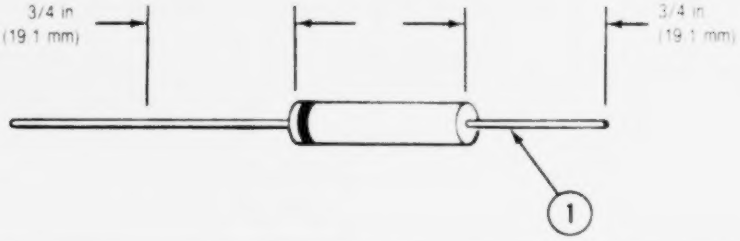
WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

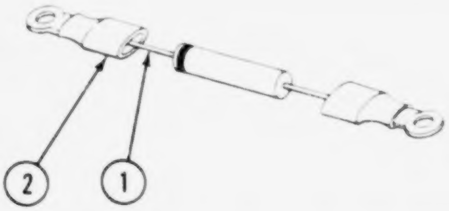
NOTE

New diodes or new capacitor must be prepared for installation. Capacitor C1 and Diode D1 are prepared for installation the same way. Step 1 shows Diode D1 preparation. If you are installing only Diodes D3 and D4, or Diodes D5 and D6, go to step 2.

1. PREPARE NEW DIODE D1 FOR INSTALLATION.
   - Cut two diode leads (1) to 3/4 in. (19.1 mm) length. Use diagonal cutting pliers and steel rule.



   - Install two crimp lug terminals (2) on two diode leads (1). Use crimping tool.



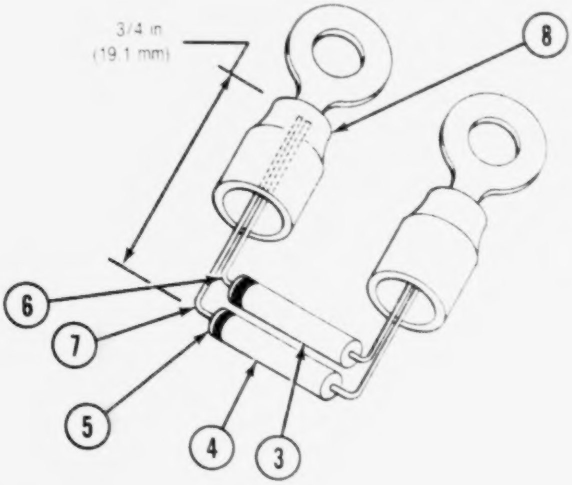
CAUTION

Dispenser parts can be damaged if diodes are not correctly prepared for installation. Leads from banded ends of diodes must be together in one crimp lug terminal.

NOTE

New Diodes D3 and D4, and Diodes D5 and D6, are prepared for installation the same way. Step 2 shows Diodes D5 and D6.

2. PREPARE NEW DIODES D5 AND D6 FOR INSTALLATION.
   - Position Diode D5 (3) and Diode D6 (4) with two banded ends (5) facing same direction.
   - Bend diode lead (6) and diode lead (7) to fit Terminal Board 1TB, Part 6. Use round nose pliers.
   - Cut bent portion of diode lead (6) and diode lead (7) to 3/4 in. (19.1 mm) length. Use diagonal cutting pliers.
   - Install new crimp lug terminal (8) on diode lead (6) and diode lead (7). Use crimping tool.
   - Repeat above preparation steps for other two diode leads.



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D. DIODES AND CAPACITOR INSTALLATION — Continued

CAUTION

Dispenser parts can be damaged if diodes are not installed correctly. Diodes must be installed with banded ends connected as follows:

Diode	Terminal Board 1TB	
	Part No.	Terminal No.
D1	5	2
D3 and D4	6	54
D5 and D6	6	Other 54

• • • •

Dispenser parts can be damaged if Capacitor C1 is not installed correctly. Capacitor C1 end having (+) symbol must be installed facing right.

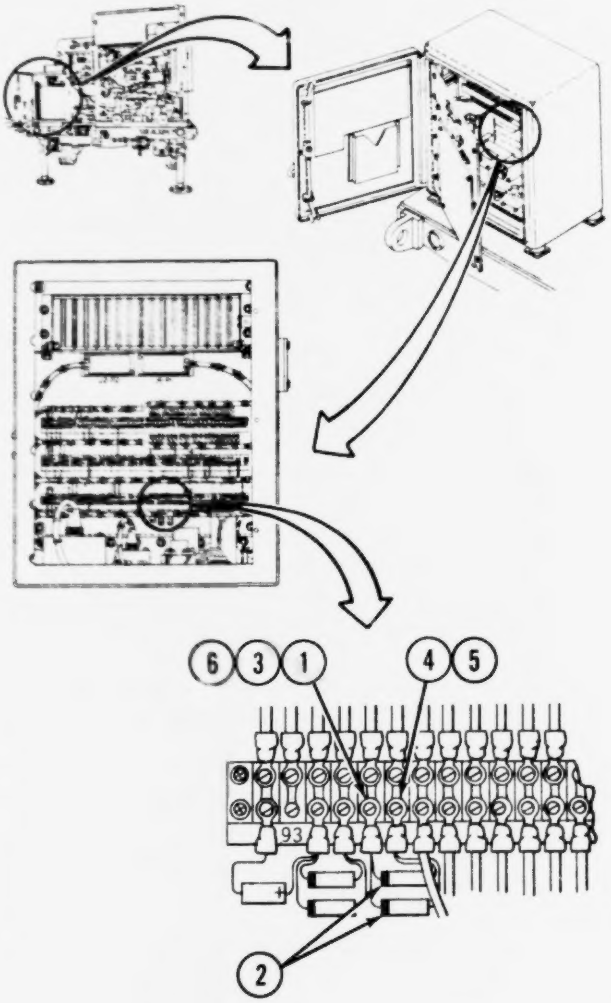
NOTE

Install Capacitor C1 end having (+) symbol, and banded ends of Diodes D3 and D4, on same terminal 54.

• • • •

Diode D1, Diodes D3 and D4, Diodes D5 and D6, and Capacitor C1 are installed the same way. Step 3 shows Diodes D5 and D6.

3. INSTALL DIODES D5 AND D6 ON TERMINAL BOARD 1TB.
   - Position terminal lug (1) of diode banded ends (2) on Terminal Board 1TB, Part 6, Terminal 54 (3).
   - Position other terminal lug (4) on Terminal Board 1TB, Part 6, Terminal 74 (5).
   - Install terminal lug (1), terminal lug (4), and two screws (6) on Terminal Board 1TB, Part 6, Terminals 54 (3) and 74 (5).



4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE TERMINAL PANEL ASSEMBLY, PAGE 11-55.)

NOTE

FOLLOW-ON MAINTENANCE:
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

E. TERMINAL BOARDS AND MARKER STRIPS REMOVAL

NOTE

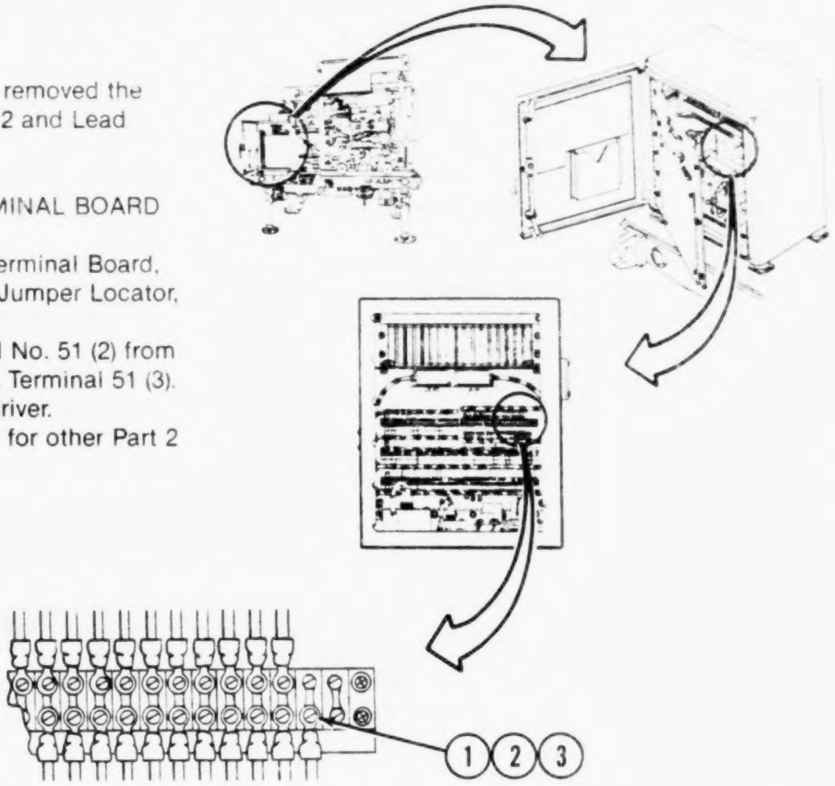
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE TERMINAL PANEL ASSEMBLY, PAGE 11-51.)

NOTE

Terminal Board 1TB leads are removed the same way. Step 2 shows Part 2 and Lead 51.

2. REMOVE LEADS FROM TERMINAL BOARD 1TB, PART 2.
   - Tag and mark leads. (See Terminal Board, Marker Strip, and Terminal Jumper Locator, Page 11-51.)
   - Remove screw (1) and Lead No. 51 (2) from Terminal Board 1TB, Part 2, Terminal 51 (3). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal step for other Part 2 leads.



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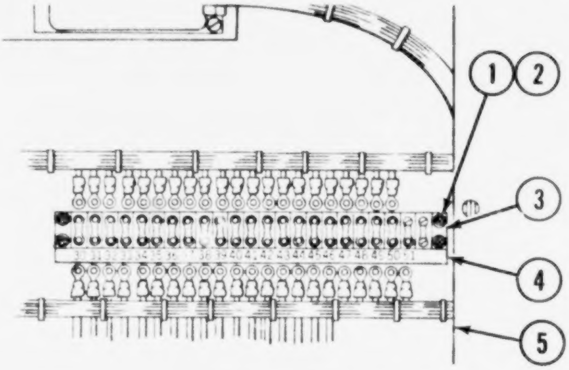
E. TERMINAL BOARDS AND MARKER STRIPS REMOVAL — Continued

NOTE

Terminal Board 1TB terminal boards and marker strips are removed the same way. Step 3 shows removal of Part 2 terminal board and marker strip.

3. REMOVE 1TB PART 2 TERMINAL BOARD AND MARKER STRIP FROM TERMINAL PANEL ASSEMBLY.
   - Remove four screws (1), lock washers (2), and 1TB Part 2 terminal board (3) and marker strip (4) from terminal panel (5). Use No. 2 cross tip screwdriver. Discard lock washers.

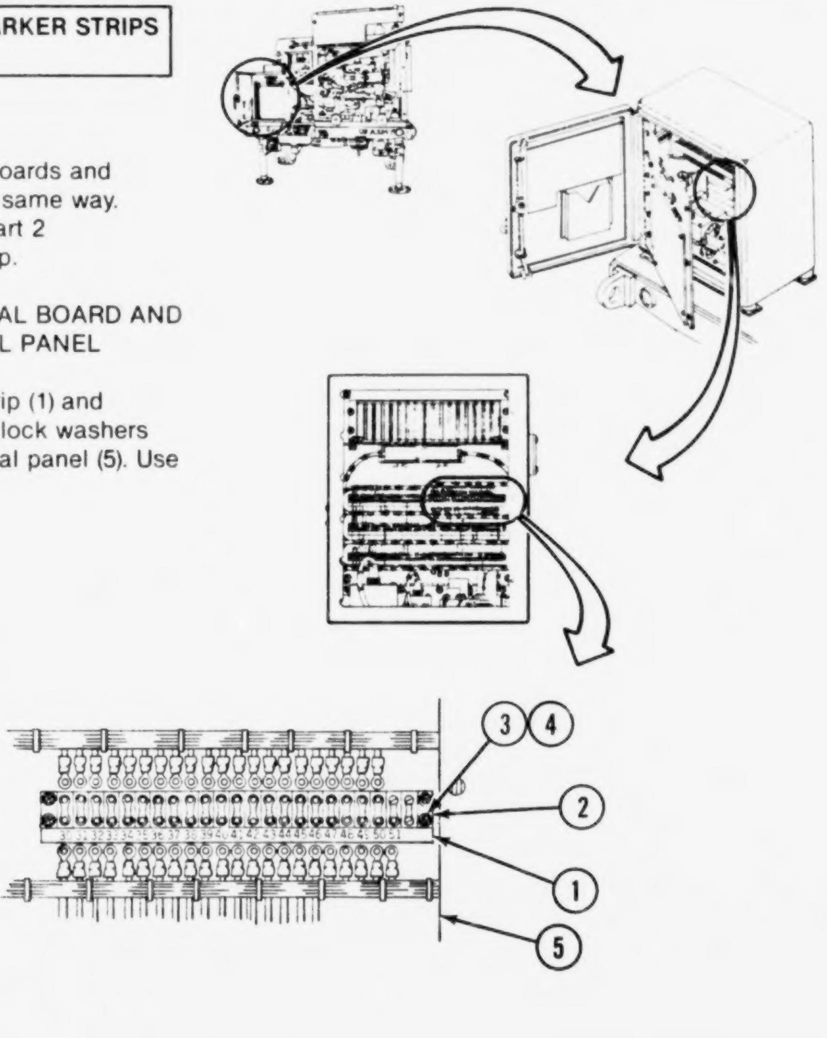


F. TERMINAL BOARDS AND MARKER STRIPS INSTALLATION

NOTE

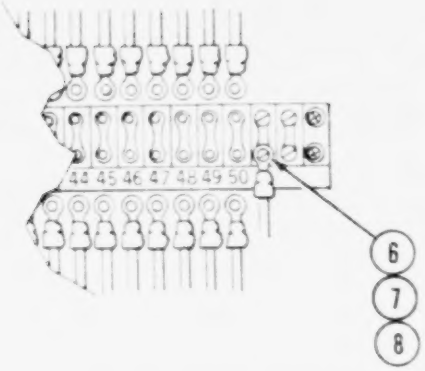
Terminal Board 1TB terminal boards and marker strips are installed the same way. Step 1 shows installation of Part 2 terminal board and marker strip.

1. INSTALL 1TB PART 2 TERMINAL BOARD AND MARKER STRIP ON TERMINAL PANEL ASSEMBLY.
   - Install 1TB Part 2 marker strip (1) and terminal board (2), four new lock washers (3), and screws (4) on terminal panel (5). Use No. 2 cross tip screwdriver.



NOTE

Terminal Board 1TB leads are installed the same way. Step 2 shows Part 2 and Lead No. 51.



2. INSTALL LEADS ON TERMINAL BOARD 1TB, PART 2.
   - Install Lead No. 51 (6) and screw (7) on Terminal Board 1TB, Part 2, Terminal 51 (8). Use 1/4 inch flat tip screwdriver.
   - Repeat above installation step for other Part 2 leads. (See Terminal Board, Marker Strip, and Terminal Jumper Locator, Page 11-51.)
   - Remove tags from leads.

3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE TERMINAL PANEL ASSEMBLY, PAGE 11-55.)

NOTE

FOLLOW-ON MAINTENANCE:
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

G. TERMINAL PANEL ASSEMBLY REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE TERMINAL PANEL ASSEMBLY, PAGE 11-51.)

2. REMOVE CIRCUIT CARD ASSEMBLIES FROM CARD RACK ASSEMBLY. (SEE CIRCUIT CARD ASSEMBLIES, PAGE 11-265.)

3. REMOVE CARD RACK ASSEMBLY FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE CARD RACK ASSEMBLY, PAGE 11-103.) SAVE LOCK WASHERS.

4. REMOVE CABLE ASSEMBLY J80 FROM ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-5.)

GO TO NEXT PAGE

G. TERMINAL PANEL ASSEMBLY REMOVAL — Continued

5. REMOVE CONDUIT HUB C6 WIRE BUNDLE LEADS FROM TERMINAL PANEL ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-5.)

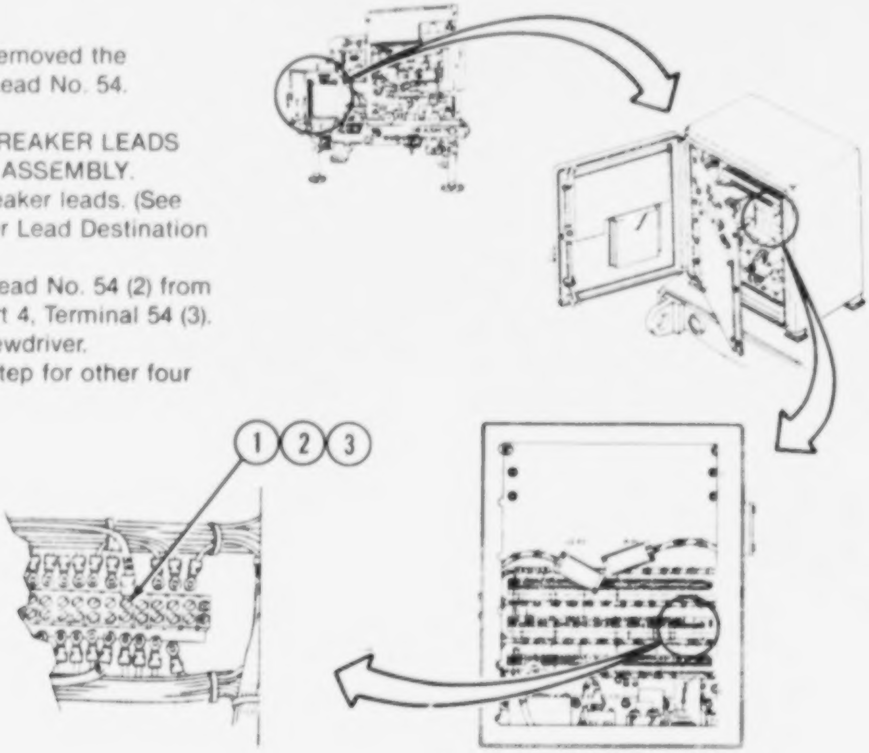
6. REMOVE CONDUIT HUB C1 WIRE BUNDLE LEADS FROM TERMINAL PANEL ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-5.)

7. REMOVE CONDUIT HUB C15 WIRE BUNDLE LEADS FROM TERMINAL PANEL ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-5.)

NOTE

Circuit breaker leads are removed the same way. Step 8 shows Lead No. 54.

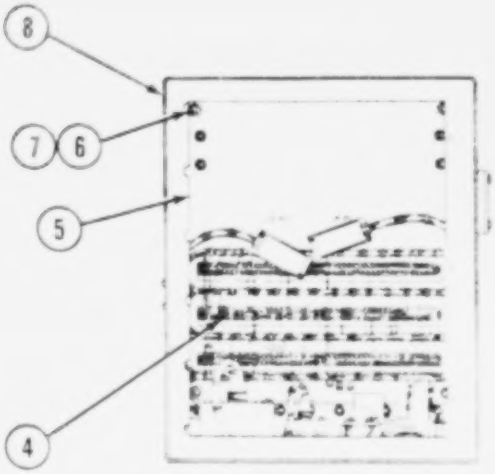
8. REMOVE FIVE CIRCUIT BREAKER LEADS FROM TERMINAL PANEL ASSEMBLY.
   - Tag and mark circuit breaker leads. (See following Circuit Breaker Lead Destination List.)
   - Remove screw (1) and Lead No. 54 (2) from Terminal Board 1TB, Part 4, Terminal 54 (3). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal step for other four circuit breaker leads.



CIRCUIT BREAKER LEAD DESTINATION LIST

From	To	
Circuit Breaker	1TB Part No.	1TB Terminal No.
1CB	5	3
1CB	1	6
2CB	5	15
3CB	1	7
4CB	4	54

9. REMOVE TERMINAL PANEL ASSEMBLY FROM ELECTRICAL ENCLOSURE ASSEMBLY.
   - Move disconnected leads (4) away from terminal panel assembly (5).
   - Remove four nuts (6), washers (7), and terminal panel assembly (5) from electrical enclosure assembly (8). Use 9/16 inch socket with 5 inch extension and ratchet handle.



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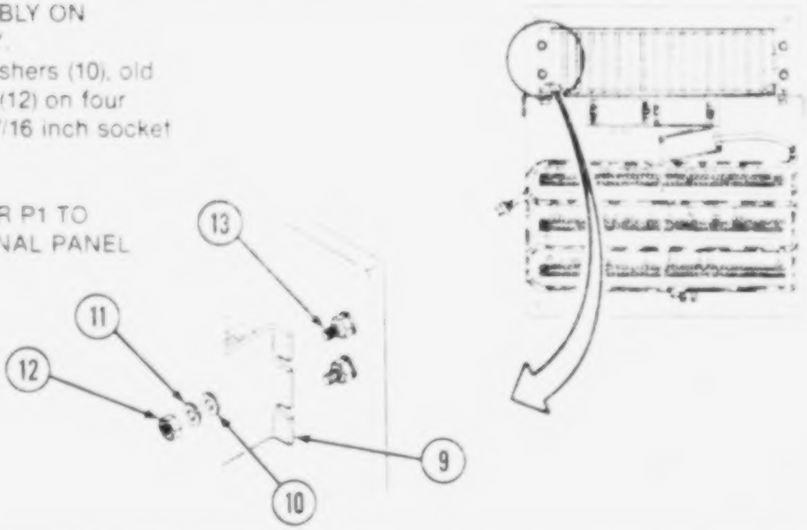
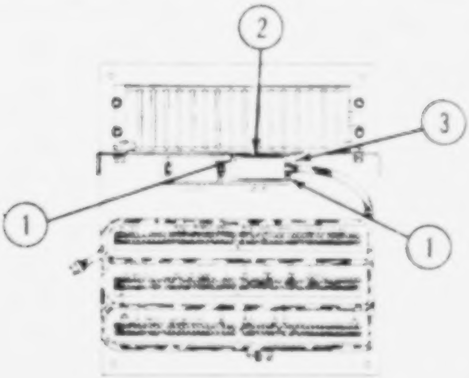
10. INSTALL CARD RACK ASSEMBLY ON TERMINAL PANEL ASSEMBLY.
    - Install card rack (9), four washers (10), old lock washers (11), and nuts (12) on four mounting screws (13). Use 7/16 inch socket with ratchet handle.

11. CONNECT PLUG CONNECTOR P1 TO RECEPTACLE J1. (SEE TERMINAL PANEL ASSEMBLY, PAGE 11-54.)



H. TERMINAL PANEL ASSEMBLY INSTALLATION

1. DISCONNECT PLUG CONNECTOR P1 FROM RECEPTACLE J1.
   - Loosen screws (1), and disconnect Connector P1 (2) from Receptacle J1 (3). Use 1/4 inch flat tip screwdriver.



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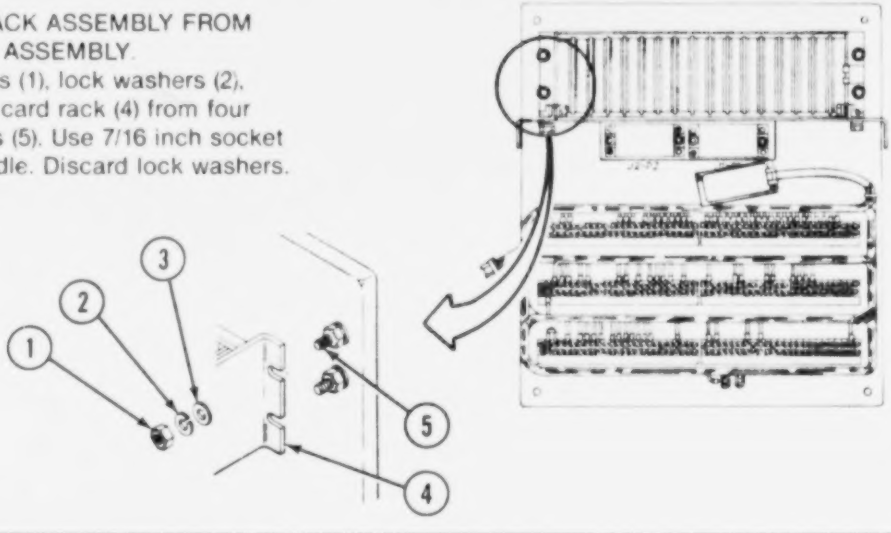
H. TERMINAL PANEL ASSEMBLY INSTALLATION — Continued

2. REMOVE CARD RACK ASSEMBLY FROM TERMINAL PANEL ASSEMBLY.
   - Remove four nuts (1), lock washers (2), washers (3), and card rack (4) from four mounting screws (5). Use 7/16 inch socket with ratchet handle. Discard lock washers.



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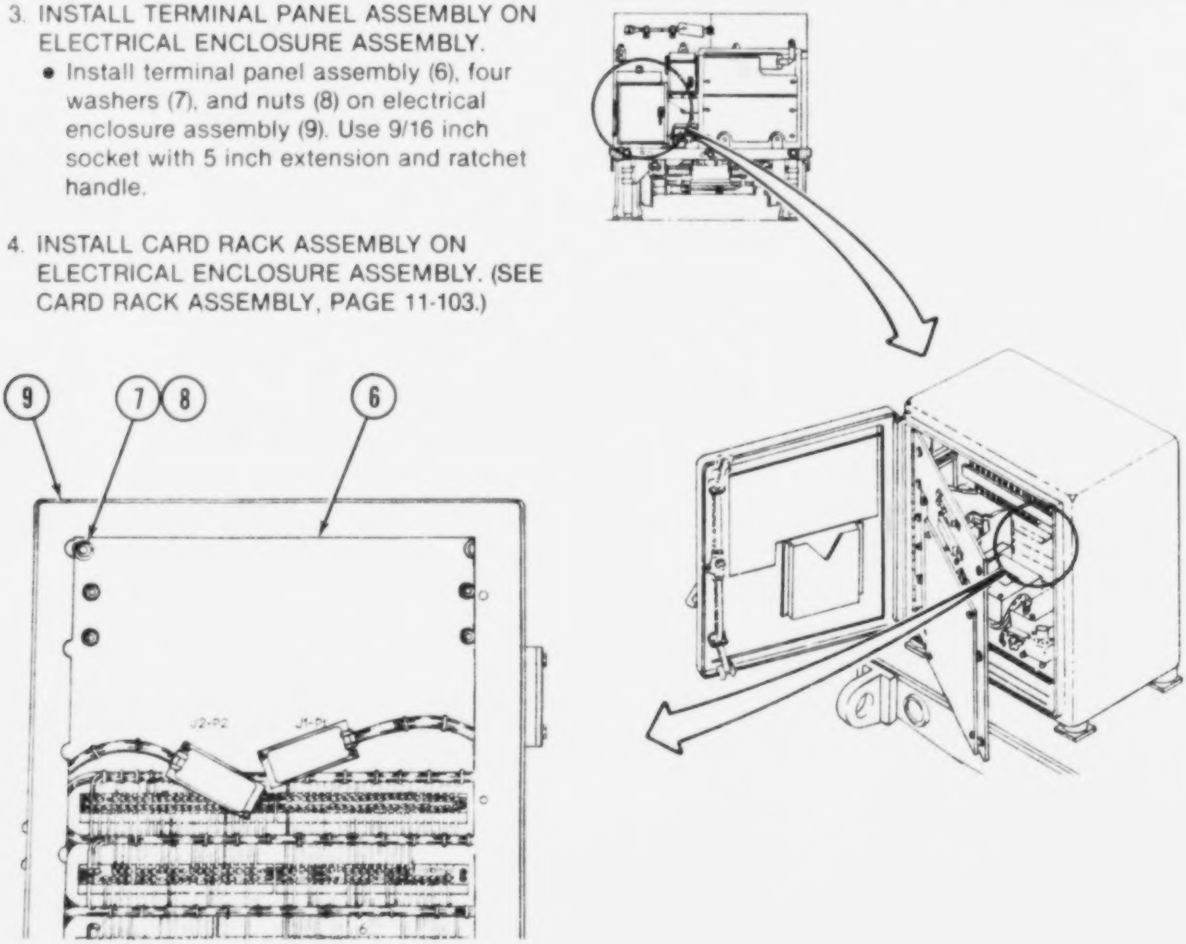
3. INSTALL TERMINAL PANEL ASSEMBLY ON ELECTRICAL ENCLOSURE ASSEMBLY.
   - Install terminal panel assembly (6), four washers (7), and nuts (8) on electrical enclosure assembly (9). Use 9/16 inch socket with 5 inch extension and ratchet handle.

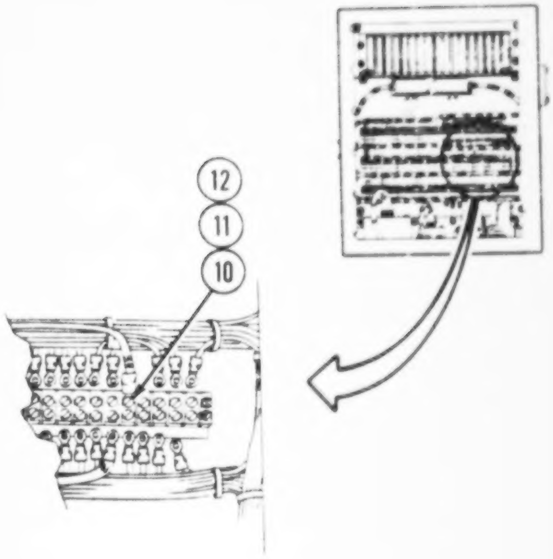
4. INSTALL CARD RACK ASSEMBLY ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE CARD RACK ASSEMBLY, PAGE 11-103.)



NOTE

Circuit breaker leads are installed the same way. Step 3 shows Lead No. 54.

5. INSTALL FIVE CIRCUIT BREAKER LEADS ON TERMINAL PANEL ASSEMBLY.
   - Install Lead No. 54 (10) and screw (11) on Terminal Board 1TB, Part 4, Terminal 54 (12). Use 1/4 inch flat tip screwdriver.
   - Repeat above installation step for other four circuit breaker leads. (See Circuit Breaker Lead Destination List, Page 11-62.)



6. INSTALL CONDUIT HUB C15 WIRE BUNDLE LEADS ON TERMINAL PANEL ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-5.)

7. INSTALL CONDUIT HUB C1 WIRE BUNDLE LEADS ON TERMINAL PANEL ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-5.)

8. INSTALL CONDUIT HUB C6 WIRE BUNDLE LEADS ON TERMINAL PANEL ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-5.)

9. INSTALL CABLE ASSEMBLY J80 ON ELECTRICAL ENCLOSURE ASSEMBLY. (SEE ELECTRICAL ENCLOSURE ASSEMBLY AND SHOCK MOUNTS, PAGE 11-5.)

10. INSTALL CIRCUIT CARD ASSEMBLIES ON CARD RACK ASSEMBLY. (SEE CIRCUIT CARD ASSEMBLIES, PAGE 11-265.)

11. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE TERMINAL PANEL ASSEMBLY, PAGE 11-55.)

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

END OF TASK

11-7 CABLE ASSEMBLY P2, P80, AND J17A

DESCRIPTION

This task covers:
A. REMOVAL (p 11-67)
B. INSTALLATION (p 11-81)

INITIAL SETUP

Tools and Special Tools:
- Electronic equipment tool kit 5180-00-605-0079:
  - Diagonal cutting pliers
  - 3/8 inch flat tip screwdriver
  - 1/4 inch flat tip screwdriver
  - Round nose pliers
  - 5/64 inch hex key
  - 9/16 inch open end wrench
- General mechanic's tool kit 5180-00-177-7033:
  - No. 2 cross tip screwdriver
- Imprinting tool
- Goggles 4240-00-269-7912
- 3/8 inch spinner wrench 5120-00-596-1263

Materials/Parts:
- Masking tape, Item 19, Appendix B
- Lock washer (22) 5310-00-616-3555
- Lock washer (2) 5310-00-579-5554
- Cable tie 5975-00-727-5153
- Cable tie 5975-01-013-2742
- Marking sleeve (19200) 9217987-5

Personnel Required:
- Electrical repairer

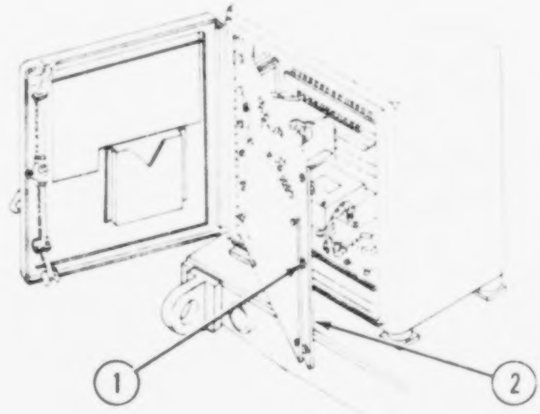
References:
- TM 9-1095-205-10
- TM 9-1095-205-20
- TM 55-1500-323-25
- B.I.T.E. ALARM PANEL ASSEMBLY, Page 11-195

A. REMOVAL

NOTE

PRELIMINARY PROCEDURES:
- Open Right Battery Box Cover. (See TM 9-1095-205-10.)
- Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
- Open BITE Panel Door. (See TM 9-1095-205-10.)

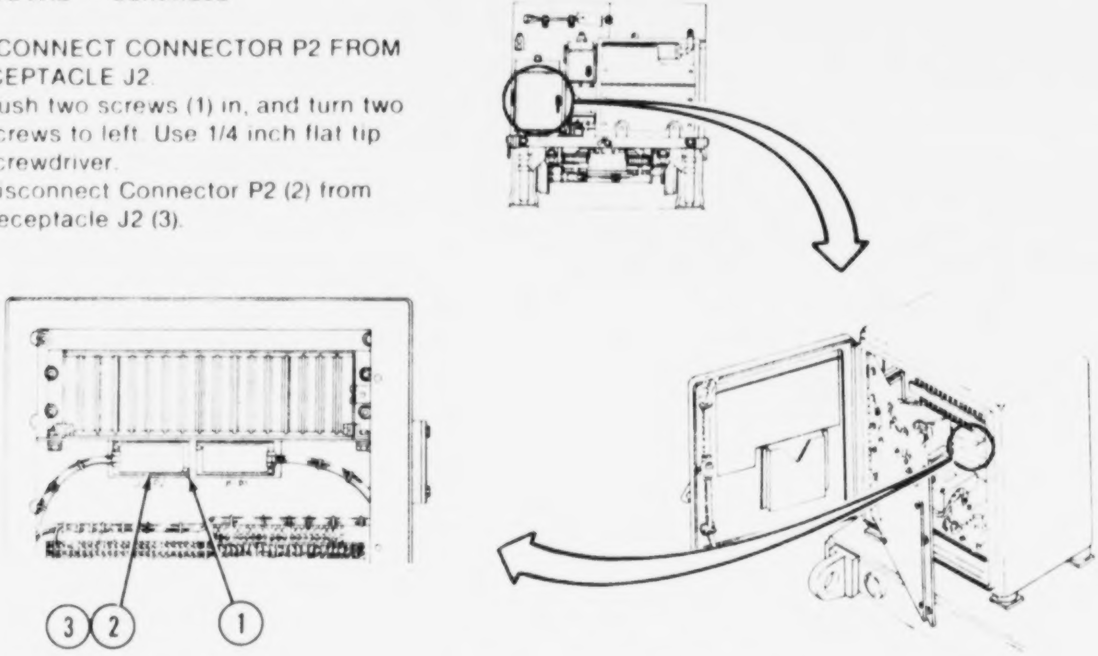
1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Loosen three panel fasteners (1), and open BACP (2). Use 3/8 inch flat tip screwdriver.



GO TO NEXT PAGE

A. REMOVAL — Continued

2. DISCONNECT CONNECTOR P2 FROM RECEPTACLE J2.
   - Push two screws (1) in, and turn two screws to left. Use 1/4 inch flat tip screwdriver.
   - Disconnect Connector P2 (2) from Receptacle J2 (3).



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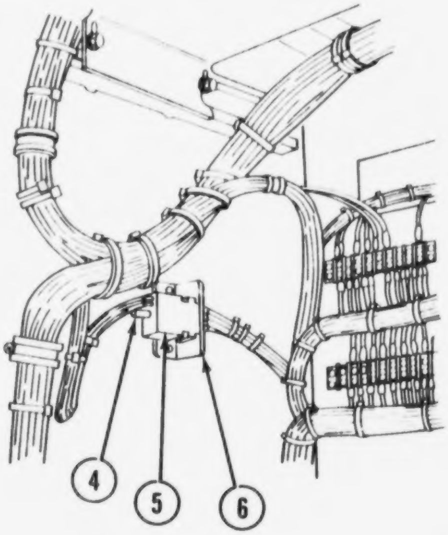
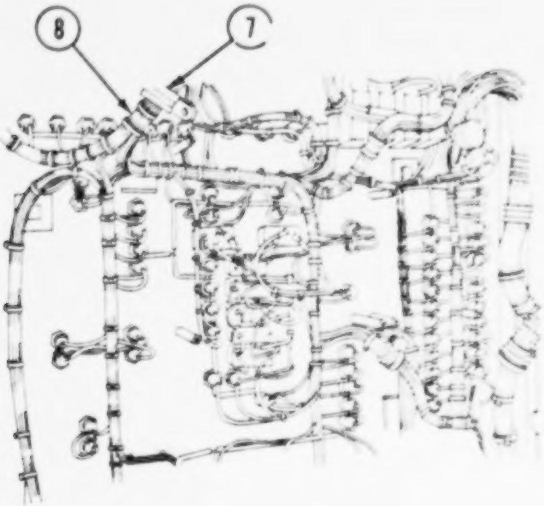
3. DISCONNECT CONNECTOR P80 FROM RECEPTACLE J80.
   - Turn jackscrew (4), and disconnect Connector P80 (5) from Receptacle J80 (6). Use 1/4 inch flat tip screwdriver.

4. REMOVE DIODE BOARD FROM DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-195.)

5. REMOVE CIRCUIT CARD ASSEMBLY CCA17 FROM DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-195.)



6. REMOVE CUSHION CLAMP (7) FROM J17A LEADS (8).



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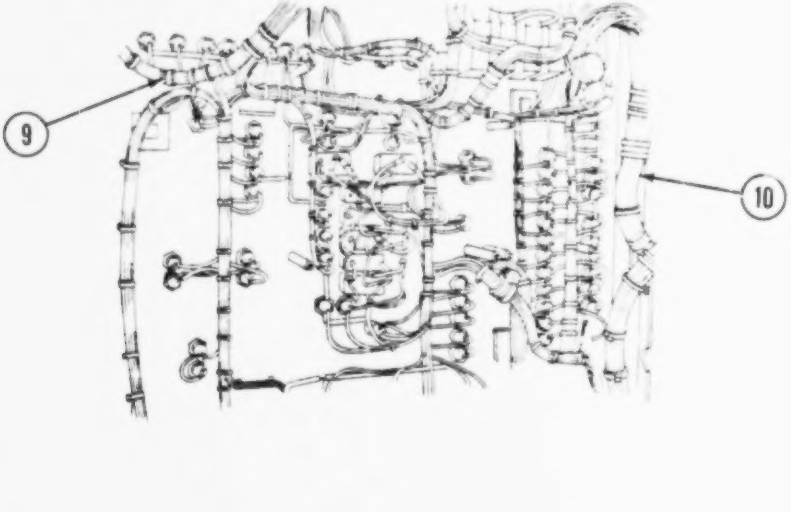
7. IDENTIFY CABLE ASSEMBLY P2, P80, AND J17A LEADS ON TERMINAL PANEL.
   - Cut and remove cable ties (9) from cable assembly (10). Use diagonal cutting pliers. Discard cable ties.



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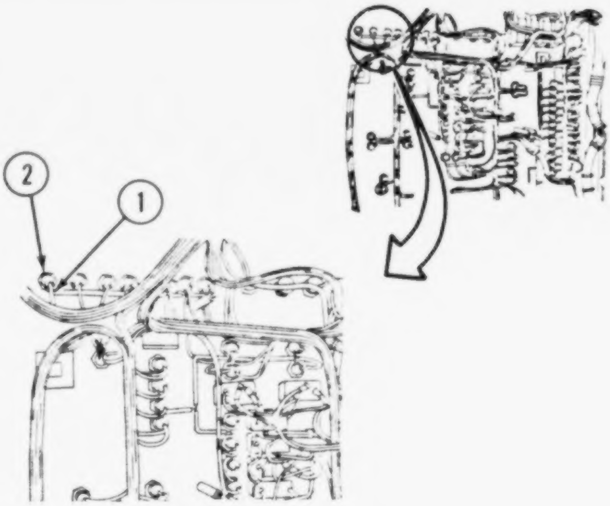
A. REMOVAL — Continued

NOTE

Cable Assembly P2, P80, and J17A leads are unsoldered at lampholders and Rotary Switch 28SW the same way. Step 8 shows Lead J17A20. Unsolder leads in order given in following P2, P80, and J17A Lead Removal List, Part A.

8. UNSOLDER 49 CABLE ASSEMBLY P2, P80, AND J17A LEADS AT BACP LAMPHOLDERS AND ROTARY SWITCH 28SW. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See following P2, J80, and J17A Lead Removal List, Part A.)
   - Unsolder Lead J17A20 (1) at Lampholder 103LT (2). (See TM 55-1500-323-25.)
   - Repeat above unsoldering step for other 48 P2, P80, and J17A leads.



P2, P80, AND J17A LEAD REMOVAL LIST, PART A

Location on BACP	Destination
103LT	J17A20
102LT	J17A16
101LT	J17A19
100LT	J17A10
59LT	P2M12
58LT	P2M8
57LT	P2M10
56LT	P2M14
55LT	P2N1
51LT	P2T8
52LT	P2T10
46LT	P2E11
48LT	P2C15
49LT	P2C1
50LT	P2B6
25LT	P2R10
27LTA	P2L15
27LTB	P2R14
23LT	P2R6

P2, P80, AND J17A LEAD REMOVAL LIST, PART A — Continued

Location on BACP	Destination
26LT	P2R12
35LT	P2F10
36LT	P204
33LT	P208
34LT	P2A11
104LT	J17A7
105LT	J17A9
106LT	J17A25
107LT	J17A28
53LT	P2T12
54LT	P2T14
110LT	J17A8
109LT	J17A22
108LT	J17A23
SW28-1	J17A15
SW28-2	J17A14
SW28-3	J17A13
39LT	P2E5
40LT	P206
37LT	P2S3
38LT	P2B4
41LT	P2E9
43LT	P2C13
44LT	P2C7
45LT	P2D6
61LT	P2D2
60LT	P2A13
111LT	J17A27
112LT	J17A24
113LT	J17A26

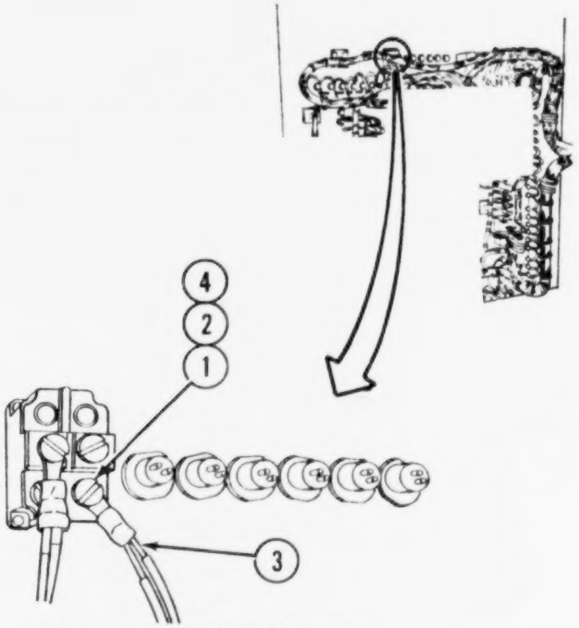
GO TO NEXT PAGE

A. REMOVAL — Continued

NOTE

Cable Assembly P2, P80, and J17A leads are removed from BACP toggle and pushbutton switches the same way. Step 9 shows Lead J17A21. Remove leads in order given in following P2, P80, and J17A Lead Removal List, Part B.

9. REMOVE 25 CABLE ASSEMBLY P2, J80, AND J17A LEADS FROM BACP TOGGLE SWITCHES AND PUSHBUTTON SWITCHES.
   - Tag and mark leads. (See following P2, P80, and J17A Lead Removal List, Part B.)
   - Remove screw (1), lock washer (2), and Lead J17A21 (3) from Switch 17SW Terminal No. 1 (4). Use 1/4 inch flat tip screwdriver. Discard lock washer.
   - Repeat above removal step for other 24 P2, P80, and J17A leads.



LEAD P2H14/P2K14 REMOVED FOR CLARITY

P2, P80, AND J17A LEAD REMOVAL LIST, PART B

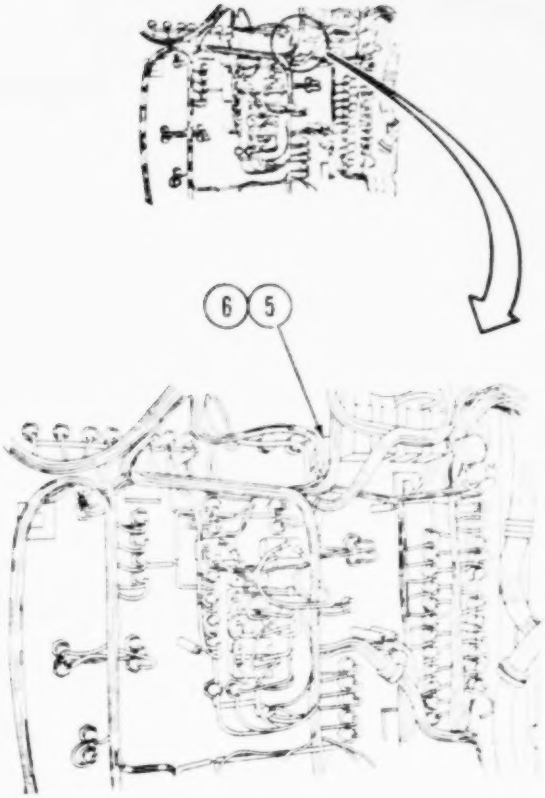
Location on BACP	Destination
17SW1	J17A21
17SW2	P2H14/P2K14
17SW5	P2G15/P2J15
7PB	P2B2
6PB	P2N5
5PB	P2N3
SW21-2	J17A41
SW20-1	P2G13/P2J13
SW20-2	J17A40
SW24-3	P80A
SW30-2	J17A42
SW29-2	J17A39
SW31-3	J17A35
SW32-3	J17A35
15PB	P2U13
14PB	P2U11
13PB	P2U7
12PB	P2U5
11PB	P2U3
10PB	P2U1
9PB	P2S9
8PB	P2S7

NOTE

Cable Assembly P2, P80, and J17A leads are unsoldered at lampholders, Switch 15SW, Variable Resistor R15, and Meter 7M the same way. Step 10 shows lead P2N7. Unsolder leads in order given in following P2, P80, and J17A Lead Removal List, Part C.

10. UNSOLDER 25 CABLE ASSEMBLY P2, P80 AND J17A LEADS AT SWITCH 15SW, VARIABLE RESISTOR R15, MILLIAMPERE METER 7M, AND LAMPHOLDERS. (SEE TM 55-1500-323-25.)
    - Tag and mark leads. (See following P2, P80, and J17A Lead Removal List, Part C.
    - Unsolder Lead P2N7 (5) at Switch 15SW Terminal 1 (6). (See TM 55-1500-323-25.)
    - Repeat unsoldering step for other 24 P2, P80, and J17A leads.

11. SET RUN/TEST SWITCH S1 ON BACP TO TEST. (SEE TM 9-1095-205-10.)



P2, P80, AND J17A LEAD REMOVAL LIST, PART C

Location on BACP	Destination
15SW1	P2N7
9LT	P2U9
10LT	P2B10
R5-Wiper	P2B14
28LT	P2P3
29LT	P2P5
30LT	P2P7
31LT	P2P9
32LT	P2C11
7M –	P2C9
7M +	P2E3
11LT	P2010
12LT	P2S13
13LT	P2P1

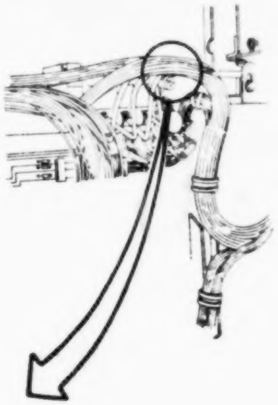
GO TO NEXT PAGE

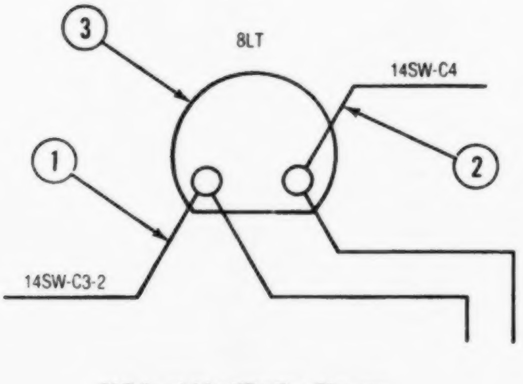
A. REMOVAL — Continued

P2, P80, AND J17A LEAD REMOVAL LIST, PART C — Continued

Location on BACP	Destination
14LT	P2T2
15LT	P2R4
16LT	P2R2
17LT	P2T4
18LT	P2S5
19LT	P202
20LT	P2S1
21LT	P2012
22LT	P2T6
R6-Wiper	P2C5
R6-CW	P2A3

12. UNSOLDER TWO LEADS AT LAMPHOLDER 8LT. (SEE TM 55-1500-323-25.)
    - Tag and mark leads. (See following 8LT Lead Identification Diagram.)
    - Unsolder Lead 14SW-C3-2 (1) and Lead 14SW-C4 (2) at Lampholder 8LT (3). (See TM 55-1500-323-25.)





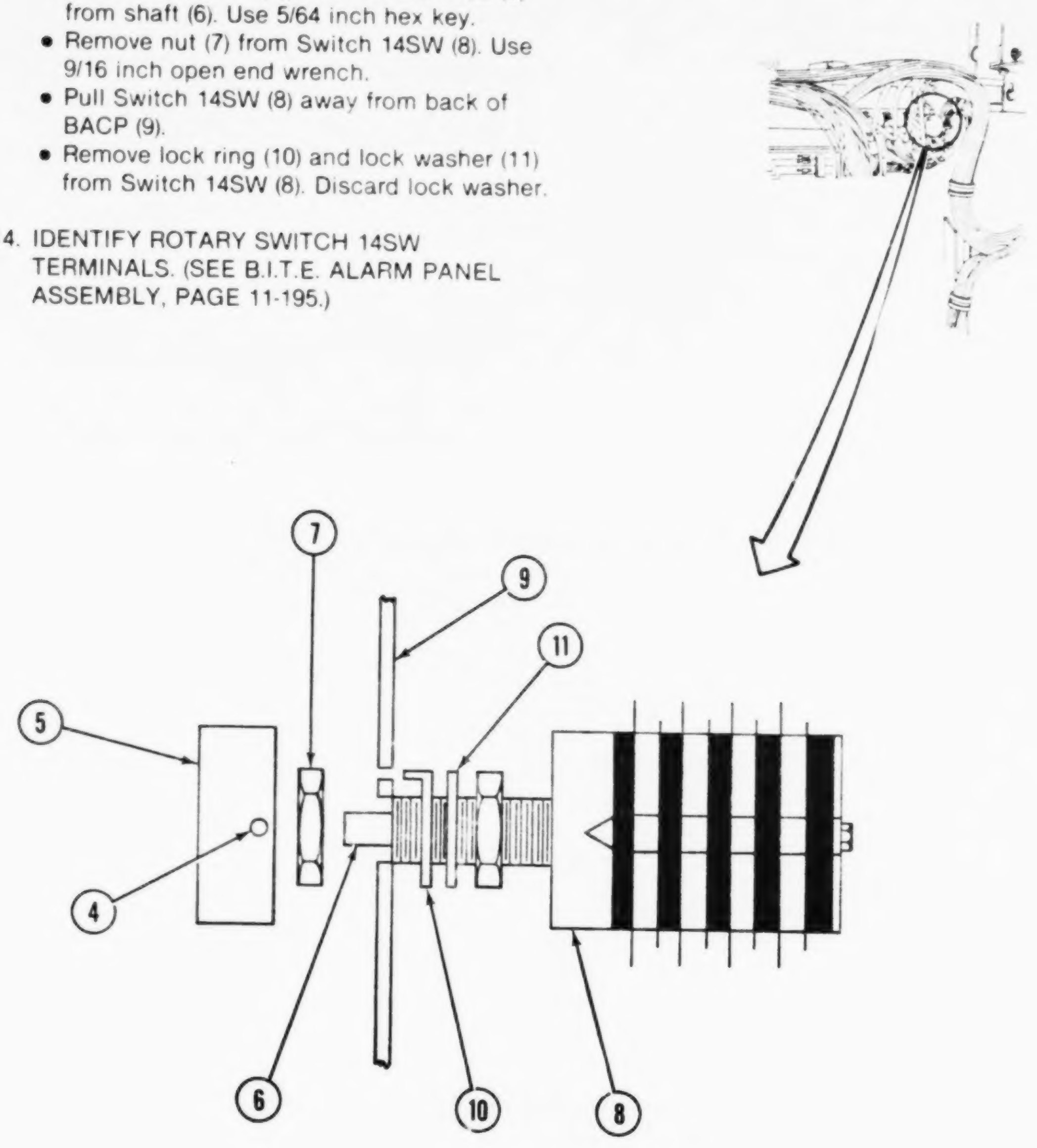
8LT Lead Identification Diagram

NOTE

Rotary Switch 14SW must be moved away from back of BACP before Rotary Switch 14SW leads can be disconnected.

13. REMOVE ROTARY SWITCH 14SW FROM BACP.
    - Loosen setscrew (4), and remove knob (5) from shaft (6). Use 5/64 inch hex key.
    - Remove nut (7) from Switch 14SW (8). Use 9/16 inch open end wrench.
    - Pull Switch 14SW (8) away from back of BACP (9).
    - Remove lock ring (10) and lock washer (11) from Switch 14SW (8). Discard lock washer.

14. IDENTIFY ROTARY SWITCH 14SW TERMINALS. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-195.)



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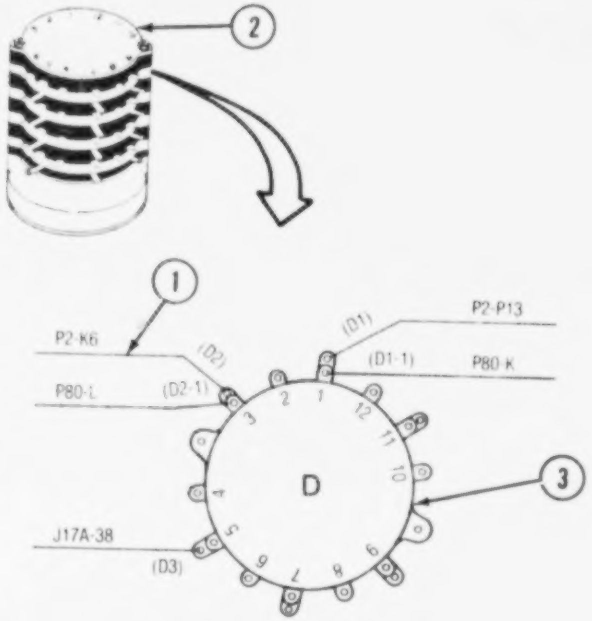
A. REMOVAL — Continued

NOTE

Unsolder leads in order given in following P2, P80, and J17A Lead Removal List, Part D.

15. UNSOLDER FIVE CABLE ASSEMBLY P2, P80, AND J17A LEADS AT ROTARY SWITCH 14SW, LEVEL D. (SEE TM 55-1500-323-25.)
    - Tag and mark leads. (See following 14SW Level D Lead Identification Diagram and following P2, P80, and J17A Lead Removal List, Part D.)
    - Unsolder five Cable Assembly P2, P80, and J17A leads (1) at Switch 14SW (2), Level D (3). (See TM 55-1500-323-25.)



14SW Level D Lead Identification Diagram

P2, P80, AND J17A LEAD REMOVAL LIST, PART D

Location on BACP	Destination
14SW-D1-1	P80K
14SW-D2-1	P80L
14SW-D1	P2P13
14SW-D2	P2K6
14SW-D3	J17A38
14SW-C1-1	P80U
14SW-C2-1	P80T
14SW-C5-2	P2D14
14SW-C1	P2L13
14SW-C2	P2K12
14SW-C3	P2A15
14SW-B1-1	P80M
14SW-B2-1	P80S
14SW-B3-1	P80R
14SW-B4-1	P2L11
14SW-B5-1	P2S11
14SW-B1	P2A7
14SW-B2	P2H12
14SW-B3	P2B12
14SW-B4	P2N11

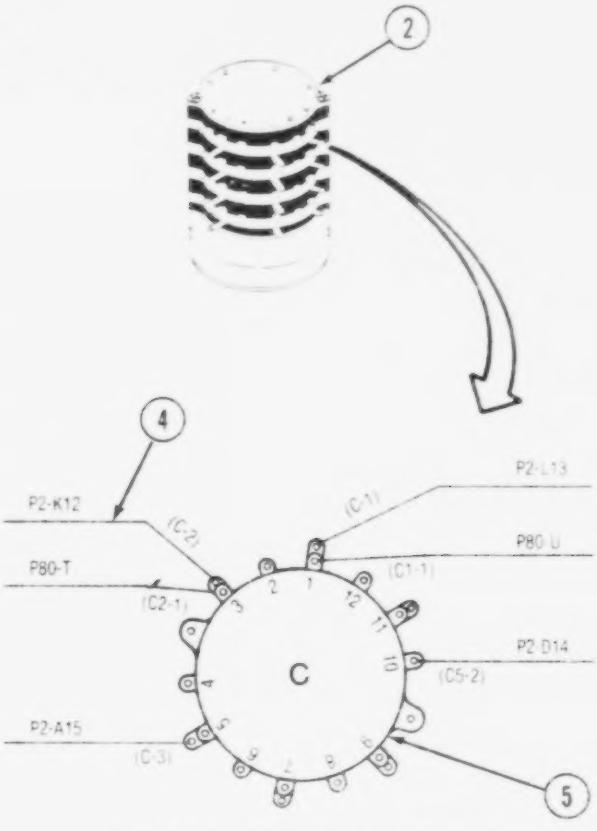
P2, P80, AND J17A LEAD REMOVAL LIST, PART D — Continued

Location on BACP	Destination
14SW-B5	P2P11
14SW-A1-1	P80F
14SW-A2-1	P2J11
14SW-A3-1	P80P
14SW-A4-1	P2N13
14SW-A4-2	J17A43
14SW-A5-1	P2P15
14SW-A5-2	J17A-46
14SW-A1	P2C3
14SW-A2	P2K10
14SW-A3	P2J7
14SW-A4	P2A5/P2D4
14SW-A5	P2J5/P2L5

NOTE

Unsolder leads in order given in P2, P80, and J17A Lead Removal List, Part D, Page 11-76.

16. UNSOLDER SIX CABLE ASSEMBLY P2, P80, AND J17A LEADS AT ROTARY SWITCH 14SW, LEVEL C. (SEE TM 55-1500-323-25.)
    - Tag and mark leads. (See following 14SW Level C Lead Identification Diagram and P2, P80, and J17A Lead Removal List, Part D, Page 11-76.)
    - Unsolder six Cable Assembly P2, P80, and J17A leads (4) at Switch 14SW (2), Level C (5). (See TM 55-1500-323-25.)



14SW Level C Lead Identification Diagram

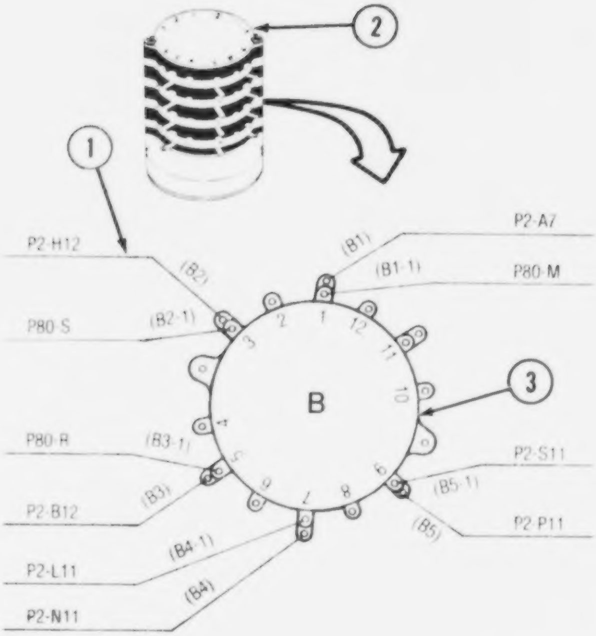
GO TO NEXT PAGE

A. REMOVAL — Continued

NOTE

Unsolder leads in order given in P2, P80, and J17A Lead Removal List, Part D, Page 11-76.

17. UNSOLDER 10 CABLE ASSEMBLY P2, P80, AND J17A LEADS AT ROTARY SWITCH 14SW, LEVEL B. (SEE TM 55-1500-323-25.)
    - Tag and mark leads. (See following 14SW Level B Lead Identification Diagram and P2, P80, and J17A Lead Removal List, Part D, Page 11-76.)
    - Unsolder 10 Cable Assembly P2, P80, and J17A leads (1) at Switch 14SW (2), Level B (3). (See TM 55-1500-323-25.)

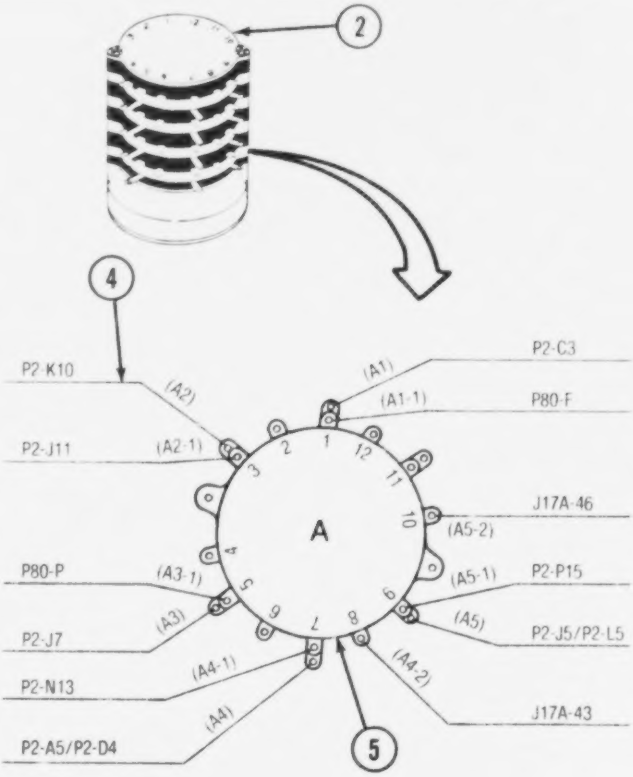


14SW Level B Lead Identification Diagram

NOTE

Unsolder leads in order given in P2, P80, and J17A Lead Removal List, Part D, Page 11-76.

18. UNSOLDER 14 CABLE ASSEMBLY P2, P80, AND J17A LEADS AT ROTARY SWITCH 14SW, LEVEL A. (SEE TM 55-1500-323-25.)
    - Tag and mark leads. (See following 14SW Level A Lead Identification Diagram and P2, P80, and J17A Lead Removal List, Part D, Page 11-76.)
    - Unsolder 14 Cable Assembly P2, P80, and J17A leads (4) at Switch 14SW (2), Level A (5). (See TM 55-1500-323-25.)

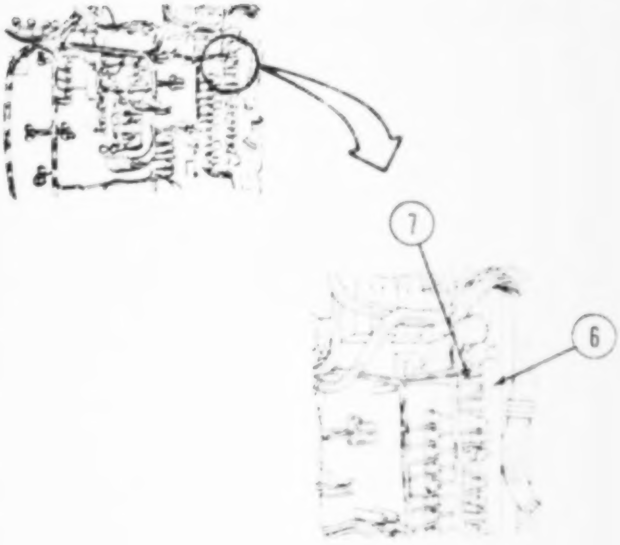


14SW Level A Lead Identification Diagram

NOTE

P2, P80, and J17A leads are unsoldered at lampholders the same way. Step 19 shows Lead P2E13. Unsolder leads in order given in following P2, P80, and J17A Lead Removal List, Part E.

19. UNSOLDER 28 CABLE ASSEMBLY P2, P80, AND J17A LEADS AT LAMPHOLDERS. (SEE TM 55-1500-323-25.)
    - Tag and mark leads. (See following P2, P80, and J17A Lead Removal List, Part E.)
    - Unsolder Lead P2E13 (6) at Lampholder 62LT (7). (See TM 55-1500-323-25.)
    - Repeat above unsoldering step for other 27 P2, P80, and J17A leads.



P2, P80, AND J17A LEAD REMOVAL LIST, PART E

Location on BACP	Destination
62LT	P2E13
63LT	P2G5
64LT	P2K2
65LT	P2E7
66LT	P2E1
67LT	P2F14
68LT	P2F12
69LT	P2F6
70LT	P2F2
71LT	P2F4
72LT	P2E15
73LT	P2H6
74LT	P2H4
75LT	P2H2
76LT	P2G11
77LT	P2G9
78LT	P2G7
79LT	P2M6
80LT	P2M4
81LT	P2M2
82LT	P2L3
83LT	P2L1

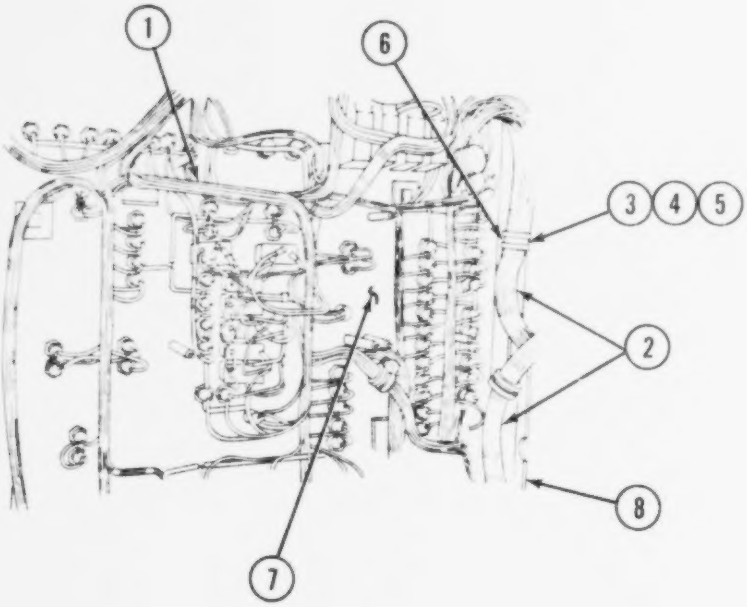
GO TO NEXT PAGE

A. REMOVAL — Continued

P2, P80, AND J17A LEAD REMOVAL LIST, PART E — Continued

Location on BACP	Destination
84LT	P2K4
85LT	P2G3
86LT	P2G1
87LT	P2J3
88LT-A	P2J1
88LT-B	P2N15

20. REMOVE CABLE ASSEMBLY P2, P80, AND J17A FROM ELECTRICAL ENCLOSURE ASSEMBLY.
- Remove any remaining cable ties (1) from cable assembly (2). Use diagonal cutting pliers. Discard cable ties.
- Remove two nuts (3), lock washers (4), screws (5), and cushion clamps (6) with cable assembly (2) from BACP (7). Use 3/8 inch spinner wrench and No. 2 cross tip screwdriver. Discard lock washers.
- Remove two cushion clamps (6) with cable assembly (2) from electrical enclosure assembly (8).
- Remove two cushion clamps (6) from cable assembly (2).

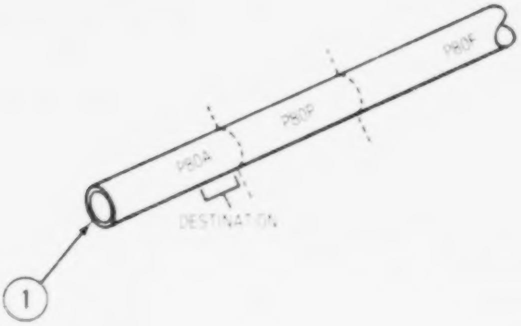


B. INSTALLATION

NOTE

If you are installing old Cable Assembly P2, P80, and J17A, go to step 3.

1. IMPRINT MARKING SLEEVE MATERIAL WITH LEAD NUMBER DESTINATIONS. (SEE FOLLOWING P2, P80, AND J17A LEAD IDENTIFICATION LIST.)
   - Imprint marking sleeve material (1) with lead numbers in "Destination" column in following P2, P80, and J17A Lead Identification List. Use imprinting tool.



P2, P80, AND J17A LEAD IDENTIFICATION LIST

NOTE

Five BACP locations have two leads on the same terminal. To find these locations, look in the "Destination" column. Find the destinations having symbols (for example, * or §). Destinations having the same symbol or symbols are the paired leads for one BACP location. For example, destinations P2G13 and P2J13 both have the symbols **. The "Location on BACP" column shows these leads share SW20-1.

Location on BACP	Destination	Wire Bundle (U = upper L = lower)
SW24-3	P80A	U
14SW-D1-1	P80K	U
14SW-A3-1	P80P	U
14SW-A1-1	P80F	U
14SW-C1-1	P80U	U
14SW-C2-1	P80T	U
14SW-B2-1	P80S	U
14SW-B3-1	P80R	U
14SW-B1-1	P80M	U
14SW-D2-1	P80L	U
SW32-3	P80N	L
104LT	J17A7	L
110LT	J17A8	L
105LT	J17A9	L
100LT	J17A10	U
SW28-3	J17A13	L
SW28-2	J17A14	L

GO TO NEXT PAGE

B. INSTALLATION — Continued

P2, P80, AND J17A LEAD IDENTIFICATION LIST — Continued

Location on BACP	Destination	Wire Bundle (U = upper L = lower)
SW28-1	J17A15	L
102LT	J17A16	U
101LT	J17A19	U
103LT	J17A20	U
17SW1	J17A21	U
109LT	J17A22	L
108LT	J17A23	L
112LT	J17A24	L
106LT	J17A25	L
113LT	J17A26	L
111LT	J17A27	L
107LT	J17A28	L
SW31-3	J17A35	L
14SW-D3	J17A38	U
SW29-2	J17A39	L
2W20-2	J17A40	L
SW21-2	J17A-41	L
SW30-2	J17A42	L
14SW-A4-2	J17A43	U
14SW-A5-2	J17A46	U
R6-CW	P2A3	L
14SW-A4	P2A5*	U
14SW-B1	P2A7	U
34LT	P2A11	U
60LT	P2A13	L
14SW-C3	P2A15	U
7PB	P2B2	U
38LT	P2B4	U
50LT	P2B6	U
10LT	P2B10	L
14SW-B3	P2B12	U
R5-Wiper	P2B14	L
49LT	P2C1	U
14SW-A1	P2C3	U
R6-Wiper	P2C5	L
44LT	P2C7	U
7M-	P2C9	L
32LT	P2C11	L
43LT	P2C13	U
48LT	P2C15	U
61LT	P2D2	L
14SW-A4	P2D4*	U
45LT	P2D6	U
14SW-C65-2	P2D14	U
66LT	P2E1	L

P2, P80, AND J17A LEAD IDENTIFICATION LIST — Continued

Location on BACP	Destination	Wire Bundle (U = upper L = lower)
7M +	P2E3	L
39LT	P2E5	U
65LT	P2E7	L
41LT	P2E9	U
46LT	P2E11	U
62LT	P2E13	L
72LT	P2E15	L
70LT	P2F2	L
71LT	P2F4	L
69LT	P2F6	L
35LT	P2F10	U
68LT	P2F12	L
67LT	P2F14	L
86LT	P2G1	L
85LT	P2G3	L
63LT	P2G5	L
78LT	P2G7	L
77LT	P2G9	L
76LT	P2G11	L
SW20-1	P2G13**	U
17SW5	P2G15***	U
75LT	P2H2	L
74LT	P2H4	L
73LT	P2H6	L
14SW-B2	P2H12	U
17SW2	P2H14§	U
88LT-A	P2J1	L
87LT	P2J3	L
14SW-A5	P2J5§§	U
14SW-A3	P2J7	U
14SW-A2-1	P2J11	U
SW20-1	P2J13**	U
17SW5	P2J15***	U
64LT	P2K2	L
84LT	P2K4	L
14SW-D2	P2K6	U
14SW-A2	P2K10	U
14SW-C2	P2K12	U
17SW2	P2K14§	U
83LT	P2L1	L
82LT	P2L3	L
14SW-A5	P2L5§§	U
14SW-B4-1	P2L11	U
14SW-C1	P2L13	U
27LT-A	P2L15	U

GO TO NEXT PAGE

B. INSTALLATION — Continued

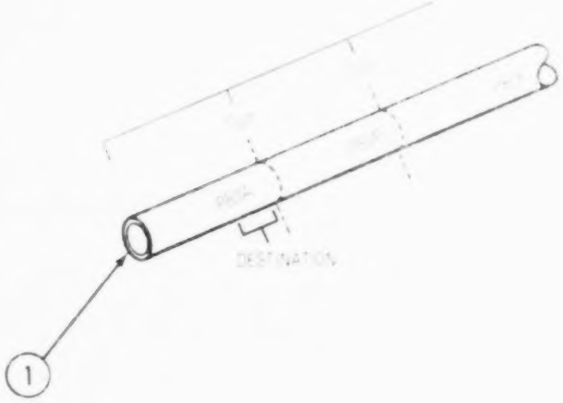
P2, P80, AND J17A LEAD IDENTIFICATION LIST — Continued

Location on BACP	Destination	Wire Bundle (U = upper L = lower)
81LT	P2M2	L
80LT	P2M4	L
79LT	P2M6	L
58LT	P2M8	U
57LT	P2M10	U
59LT	P2M12	U
56LT	P2M14	U
55LT	P2N1	U
5PB	P2N3	U
6PB	P2N5	U
SW15-1	P2N7	U
14SW-B4	P2N11	U
14SW-A4-1	P2N13	U
88LT-B	P2N15	L
19LT	P202	L
36LT	P204	U
40LT	P206	U
33LT	P208	U
11LT	P2010	L
21LT	P2012	L
Spare	P2014	L
13LT	P2P1	L
28LT	P2P3	L
29LT	P2P5	L
30LT	P2P7	L
31LT	P2P9	L
14SW-B5	P2P11	U
14SW-D1	P2P13	U
14SW-A5-1	P2P15	U
16LT	P2R2	L
15LT	P2R4	L
23LT	P2R6	U
Spare	P2R8	L
25LT	P2R10	U
26LT	P2R12	U
27LTB	P2R14	U
20LT	P2S1	L
37LT	P2S3	L
18LT	P2S5	L
8PB	P2S7	L
9PB	P2S9	L
14SW-B5-1	L2S11	U
12LT	P2S13	L
Spare	P2S15	L
14LT	P2T2	L

P2, P80, AND J17A LEAD IDENTIFICATION LIST — Continued

Location on BACP	Destination	Wire Bundle (U = upper L = lower)
17LT	P2T4	L
22LT	P2T6	L
51LT	P2T8	U
52LT	P2T10	U
53LT	P2T12	U
54LT	P2T14	U
10PB	P2U1	L
11PB	P2U3	L
12PB	P2U5	L
13PB	P2U7	L
9LT	P2U9	U
14PB	P2U11	L
15PB	P2U13	L

2. IDENTIFY AND MARK LOOSE LEADS OF NEW CABLE ASSEMBLY P2, P80, AND J17A.
   - Tag and mark leads. (See P2, P80, and J17A Lead Identification List, Page 11-81.) Mark tag "U" if lead goes in upper bundle. Mark tag "L" if lead goes in lower bundle.
   - Cut off imprinted sleeve sections (1), and slide imprinted sleeve sections onto appropriate leads of cable assembly. Use diagonal cutting pliers.
   - Tape imprinted sleeve sections (1) to leads, to prevent loss. Use masking tape.



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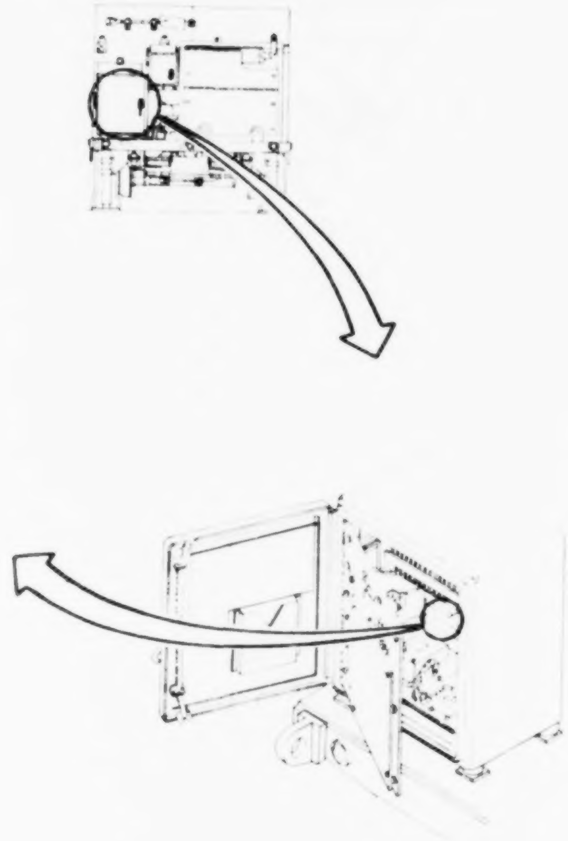
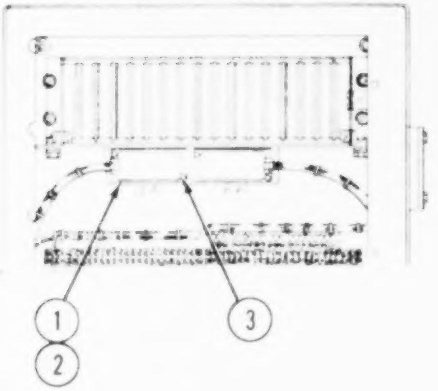
B. INSTALLATION — Continued

3. CONNECT CONNECTOR P2 TO RECEPTACLE J2.
   - Connect Connector P2 (1) to Receptacle J2 (2).
   - Push two screws (3) in, and tighten two screws 1/4 turn. Use 1/4 inch flat tip screwdriver.





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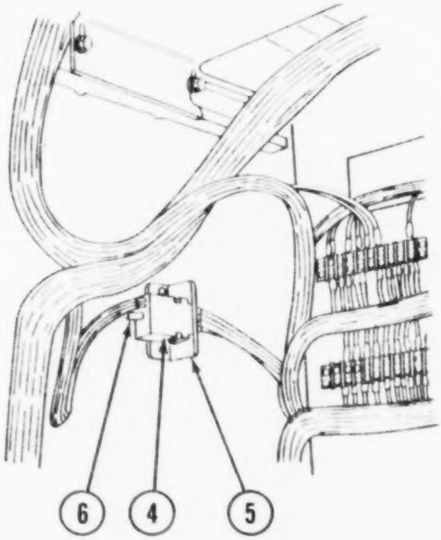
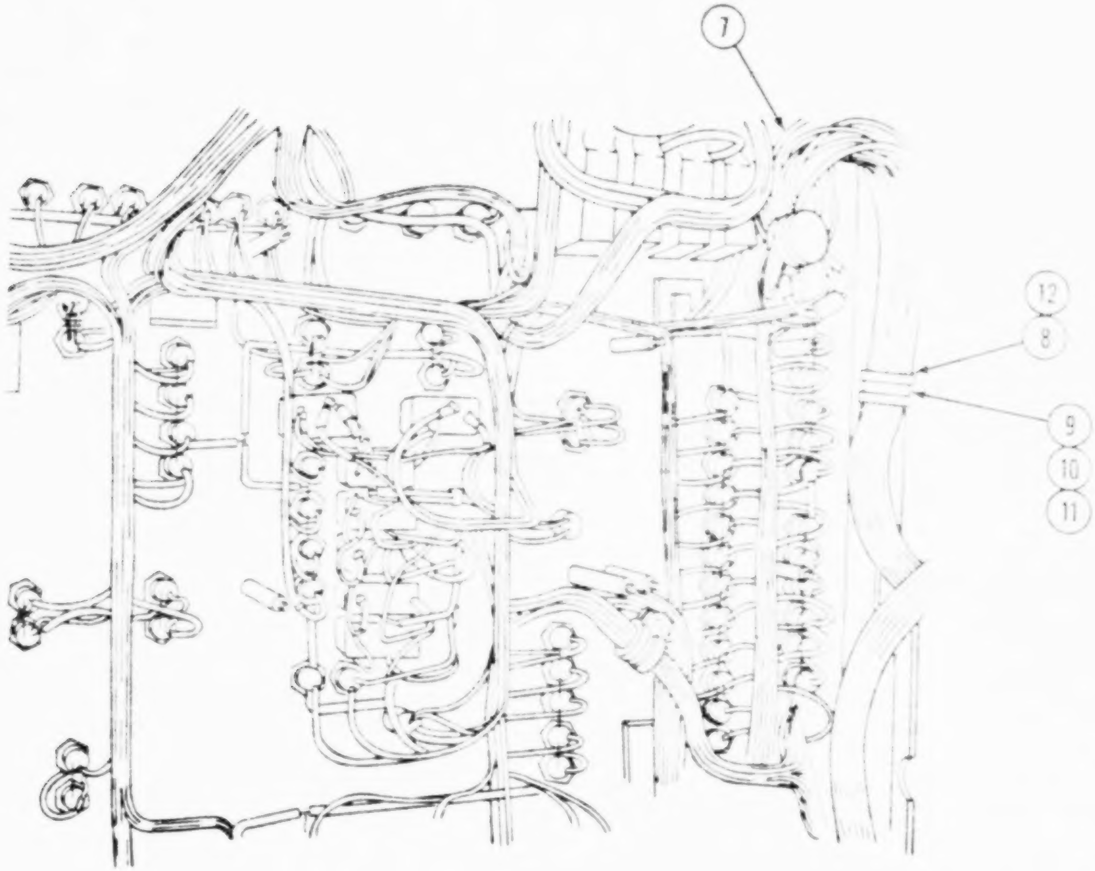
4. CONNECT CONNECTOR P80 TO RECEPTACLE J80.
   - Connect Connector P80 (4) to Receptacle J80 (5), and tighten jackscrew (6). Use 1/4 inch flat tip screwdriver.



5. SEPARATE CABLE ASSEMBLY P2, P80, AND J17A WIRES INTO UPPER AND LOWER BUNDLES.
    - Gather wires tagged "U" to form upper bundle (7).
    - Place cushion clamp (8) around upper bundle (7).
    - Install screw (9), cushion clamp (8) with wire bundle (7), new lock washer (10), and nut (11) at upper bundle position (12). Use No. 2 cross tip screwdriver and 3/8 inch spinner wrench.



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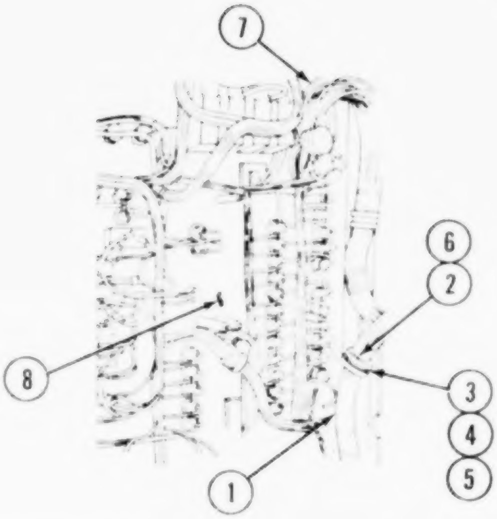
B. INSTALLATION — Continued

- Gather wires tagged "L" to form lower bundle (1).
- Place cushion clamp (2) around lower bundle (1).
- Install screw (3), cushion clamp (2) with wire bundle (1), new lock washer (4), and nut (5) at lower bundle position (6). Use No. 2 cross tip screwdriver and 3/8 inch spinner wrench.
- Place upper bundle (7) over top of B.I.T.E./ALARM CONTROL PANEL (BACP) (8).



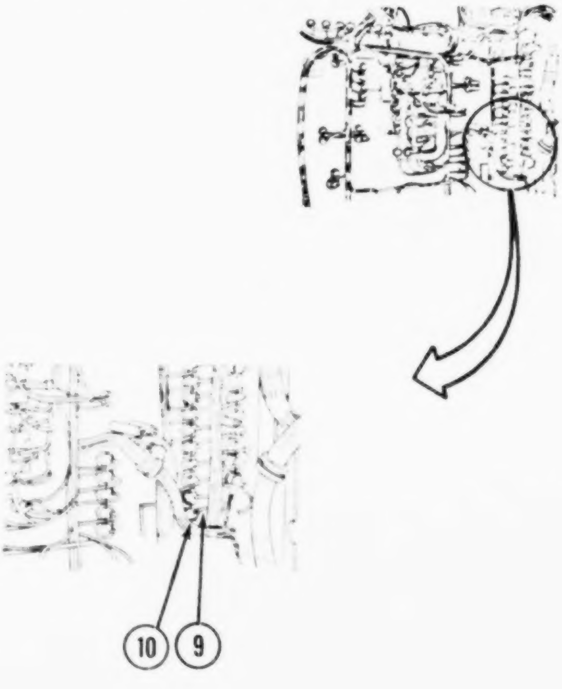
WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

NOTE

P2, P80, and J17A leads are soldered at lampholders the same way. Step 6 shows Lead P2N15. Solder leads in order given in P2, P80, and J17A Lead Installation List, Part A, Page 11-89.

6. SOLDER 28 CABLE ASSEMBLY P2, P80, AND J17A LEADS AT LAMPHOLDERS. (SEE TM 55-1500-323-25.)
   - Route Lead P2N15 (9) to Lampholder 88LT (10). (See P2, P80, and J17A Lead Installation List, Part A, Page 11-89.)
   - Cut Lead P2N15 (9) to length. Use diagonal cutting pliers.
   - Prepare Lead P2N15 (9) for soldering. (See TM 55-1500-323-25.)
   - Solder Lead P2N15 (9) at Lampholder 88LT (10). (See TM 55-1500-323-25.)
   - Repeat above soldering steps for other 27 lampholder leads. (See P2, P80, and J17A Lead Installation List, Part A, Page 11-89.)
   - Remove tags from leads.



P2, P80, AND J17A LEAD INSTALLATION LIST, PART A

NOTE

All leads are in lower wire bundle.

Location on BACP	Destination
88LT-B	P2N15
88LT-A	P2J1
87LT	P2J3
86LT	P2G1
85LT	P2G3
84LT	P2K4
83LT	P2L1
82LT	P2L3
81LT	P2M2
80LT	P2M4
79LT	P2M6
78LT	P2G7
77LT	P2G9
76LT	P2G11
75LT	P2H2
74LT	P2H4
73LT	P2H6
72LT	P2E15
71LT	P2F4
70LT	P2F2
69LT	P2F6
68LT	P2F12
67LT	P2F14
66LT	P2E1
65LT	P2E7
64LT	P2K2
63LT	P2G5
62LT	P2E13

7. IDENTIFY ROTARY SWITCH 14SW TERMINALS. (SEE B.I.T.E. PANEL ASSEMBLY, PAGE 11-195.)

GO TO NEXT PAGE

B. INSTALLATION — Continued

WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

NOTE

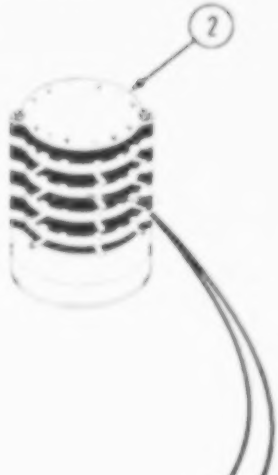
Solder leads in order given in P2, P80, and J17A Lead Installation List, Part B, Page 11-91.

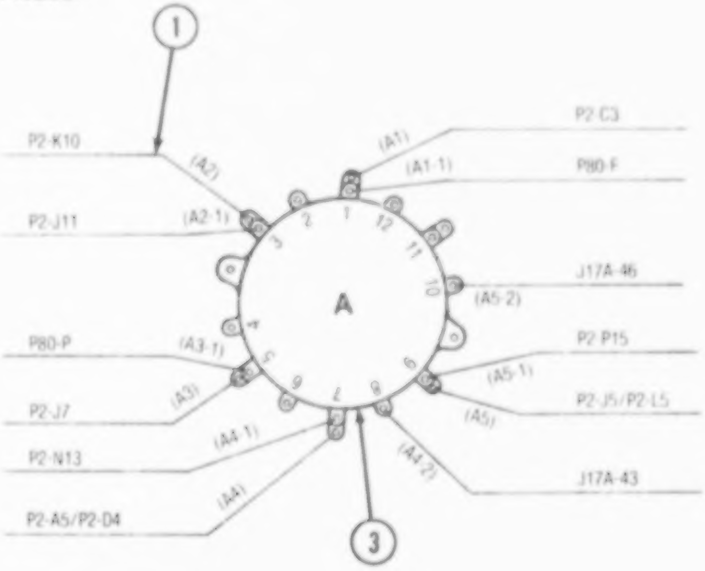
• • • •

Two Level A terminals receive two leads each. Do not solder these connections until both leads are in place.

8 SOLDER 14 CABLE ASSEMBLY P2, P80, AND J17A LEADS AT ROTARY SWITCH 14SW, LEVEL A. (SEE TM 55-1500-323-25.)

- Route 14 Level A leads (1) to terminals on Switch 14SW (2), Level A (3). (See following 14SW Level A Lead Identification Diagram and P2, P80, and J17A Lead Installation List, Part B, Page 11-91.)
- Cut 14 Level A leads (1) to length. Use diagonal cutting pliers.
- Prepare ends of 14 Level A leads (1) for soldering. (See TM 55-1500-323-25.)
- Solder 14 Level A leads (1) at Switch 14SW (2), Level A (3). (See TM 55-1500-323-25.)
- Remove tags from leads.





14SW Level A Lead Identification Diagram

P2, P80, AND J17A LEAD INSTALLATION LIST, PART B

NOTE

All leads are in lower wire bundle.

Location on BACP	Destination
14SW-A5	P2J5/P2L5
14SW-A4	P2A5/P2D4
14SW-A3	P2J7
14SW-A2	P2K10
14SW-A1	P2C3
14SW-A5-2	J17A46
14SW-A5-1	P2P15
14SW-A4-2	J17A43
14SW-A4-1	P2N13
14SW-A3-1	P80P
14SW-A2-1	P2J11
14SW-A1-1	P80F
14SW-B5	P2P11
14SW-B4	P2N11
14SW-B3	P2B12
14SW-B2	P2H12
14SW-B1	P2A7
14SW-B5-1	P2S11
14SW-B4-1	P2L11
14SW-B3-1	P80R
14SW-B2-1	P80S
14SW-B1-1	P80M
14SW-C3	P2A15
14SW-C2	P2K12
14SW-C1	P2L13
14SW-C5-2	P2D14
14SW-C2-1	P80T
14SW-C1-1	P80U
14SW-D3	J17A38
14SW-D2	P2K6
14SW-D1	P2P13
14SW-D2-1	P80L
14SW-D1-1	P80K

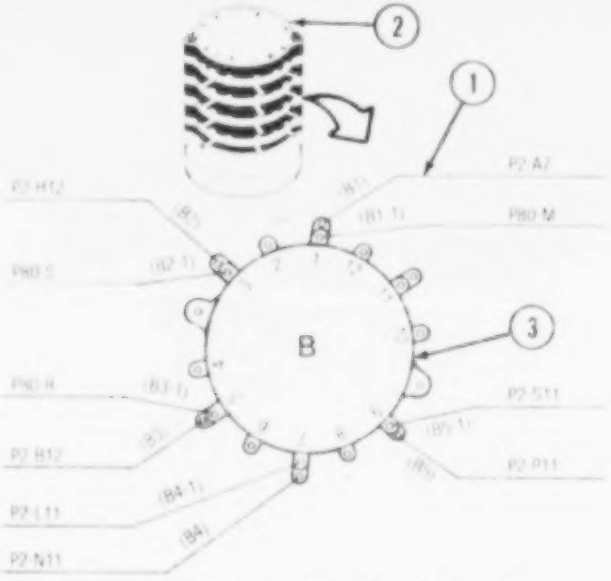
GO TO NEXT PAGE

B. INSTALLATION — Continued

NOTE

Solder leads in order given in P2, P80, and J17A Lead Installation List, Part B, Page 11-91.

9. SOLDER 10 CABLE ASSEMBLY P2, P80, AND J17A LEADS AT ROTARY SWITCH 14SW, LEVEL B. (SEE TM 55-1500-323-25.)
   - Route 10 Level B leads (1) to terminals on Switch 14SW (2), Level B (3). (See following 14SW Level B Lead Identification Diagram and P2, P80, and J17A Lead Installation List, Part B, Page 11-91.)
   - Cut 10 Level B leads (1) to length. Use diagonal cutting pliers.
   - Prepare ends of 10 Level B leads (1) for soldering. (See TM 55-1500-323-25.)
   - Solder 10 Level B leads (1) at Switch 14SW (2), Level B (3). (See TM 55-1500-323-25.)
   - Remove tags from leads.

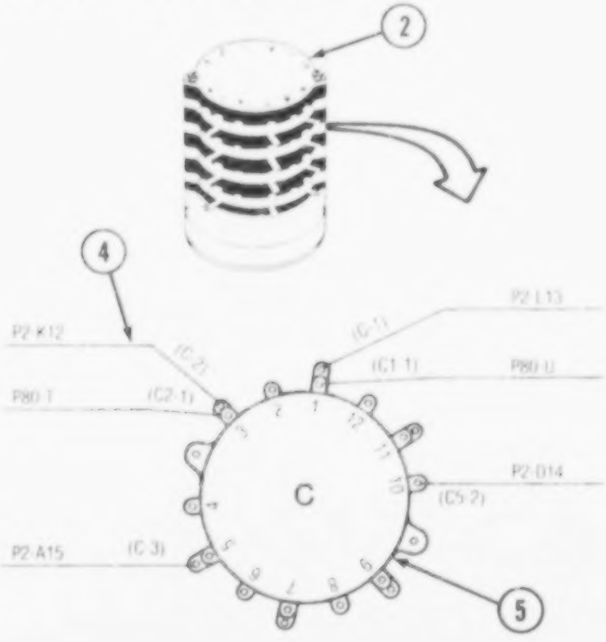


14SW Level B Lead Identification Diagram

NOTE

Solder leads in order given in P2, P80, and J17A Lead Installation List, Part B, Page 11-91.

10. SOLDER SIX CABLE ASSEMBLY P2, P80, AND J17A LEADS AT ROTARY SWITCH 14SW, LEVEL C. (SEE TM 55-1500-323-25.)
    - Route six Level C leads (4) to terminals on Switch 14SW (2), Level C (5). (See following 14SW Level C Lead Identification Diagram and P2, P80, and J17A Lead Installation List, Part B, Page 11-91.)
    - Cut six Level C leads (4) to length. Use diagonal cutting pliers.
    - Prepare ends of six Level C leads (4) for soldering. (See TM 55-1500-323-25.)
    - Solder six Level C leads (4) at Switch 14SW (2), Level C (5). (See TM 55-1500-323-25.)
    - Remove tags from leads.

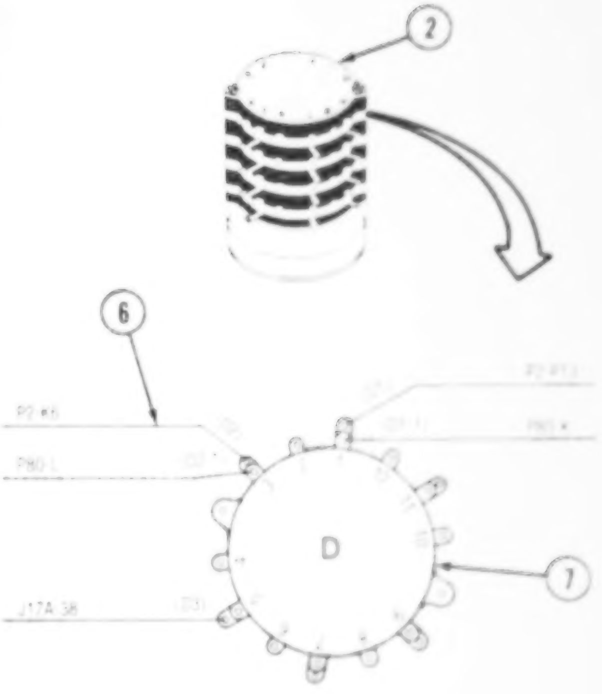


14SW Level C Lead Identification Diagram

NOTE

Solder leads in order given in P2, P80, and J17A Lead Installation List, part B, Page 11-91.

11. SOLDER FIVE CABLE ASSEMBLY P2, P80, AND J17A LEADS AT ROTARY SWITCH 14SW, LEVEL D. (SEE TM 55-1500-323-25.)
    - Route five Level D leads (6) to terminals on Switch 14SW (2), Level D (7). (See following 14SW Level D Lead Identification Diagram and P2, P80, and J17A Lead Installation List, Part B, Page 11-91.)
    - Cut five Level D leads (6) to length. Use diagonal cutting pliers.
    - Prepare ends of five Level D leads (6) for soldering. (See TM 55-1500-323-25.)
    - Solder five Level D leads (6) at Switch 14SW (2), Level D (7). (See TM 55-1500-323-25.)
    - Remove tags from leads.



14SW Level D Lead Identification Diagram

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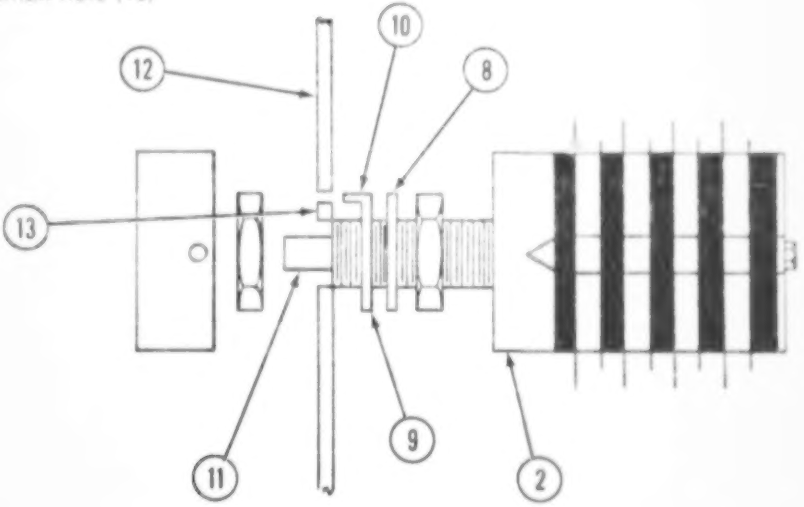
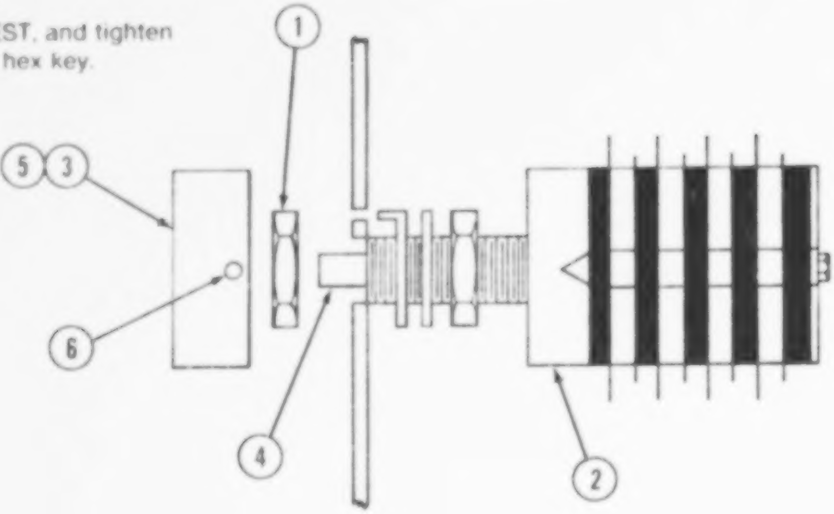
12. INSTALL ROTARY SWITCH 14SW ON BACP.
    - Position new lock washer (8) and lock ring (9) on Switch 14SW (2) with lock ring tab (10) pointing away from Switch 14SW.
    - Insert shaft (11) through BACP (12), and engage lock ring tab (10) in small hole (13) in BACP.



GO TO NEXT PAGE

B. INSTALLATION — Continued

- Install nut (1) on Switch 14SW (2). Use 9/16 inch open end wrench.
- Place knob (3) on shaft (4).
- Set switch pointer (5) to TEST, and tighten setscrew (6). Use 5/64 inch hex key.



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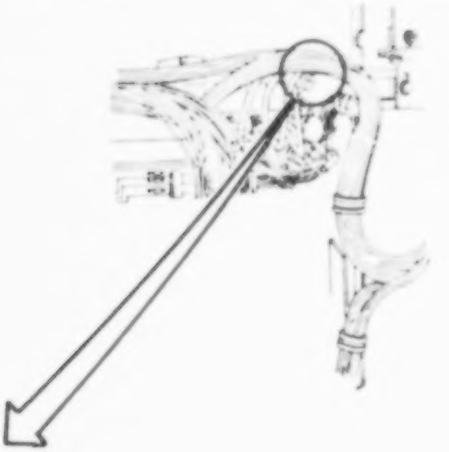
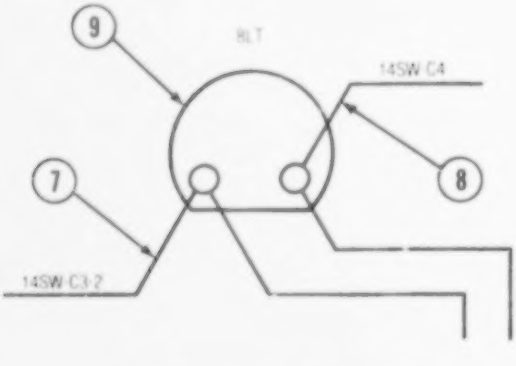
13. SOLDER TWO LEADS AT LAMPHOLDER 8LT. (SEE TM 55-1500-323-25.)
    - Solder Lead 14SW-C3-2 (7) and Lead 14SW-C4 (8) at Lampholder 8LT (9). (See following 8LT Lead Identification Diagram and TM 55-1500-323-25.)
    - Remove tags from leads.





8LT Lead Identification Diagram

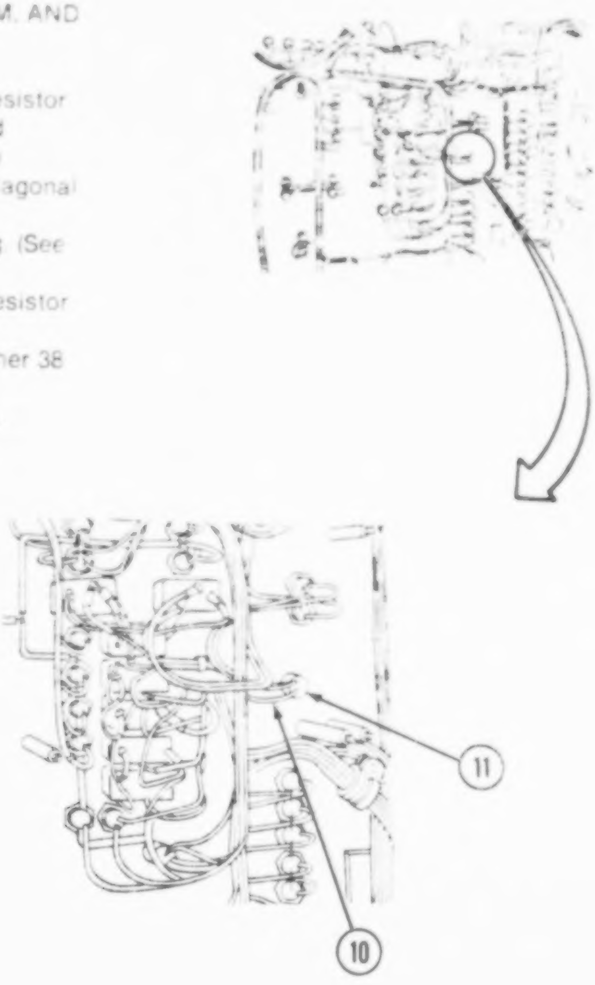
WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

NOTE

Cable Assembly P2, P80, and J17A leads are soldered at lampholders, variable resistors, Meter 7M, and Switch SW28 the same way. Step 14 shows Lead P2A3. Solder leads in order given in P2, P80, and J17A Lead Installation List, Part C, Page 11-96.

14. SOLDER 39 CABLE ASSEMBLY P2, P80, AND J17A LEADS AT LAMPHOLDERS, VARIABLE RESISTORS, MILLIAMPERE METER 7M, AND ROTARY SWITCH SW28. (SEE TM 55-1500-323-25.)
    - Route Lead P2A3 (10) to Variable Resistor R6 (11). (See P2, P80, and J17A Lead Installation List, Part C, Page 11-96.)
    - Cut Lead P2A3 (10) to length. Use diagonal cutting pliers.
    - Prepare Lead P2A3 (10) for soldering. (See TM 55-1500-323-25.)
    - Solder Lead P2A3 (10) at Variable Resistor R6 (11). (See TM 55-1500-323-25.)
    - Repeat above soldering steps for other 38 leads. (See P2, P80, and J17A Lead Installation List, Part C, Page 11-96.)
    - Remove tags from leads.



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B. INSTALLATION — Continued

P2, P80, AND J17A LEAD INSTALLATION LIST, PART C

NOTE

All leads are in lower wire bundle.

Location on BACP	Destination
R6-CW	P2A3
R6-Wiper	P2C5
22LT	P2T6
21LT	P2012
20LT	P2S1
19LT	P202
18LT	P2S5
17LT	P2T4
16LT	P2R2
15LT	P2R4
14LT	P2T2
13LT	P2P1
12LT	P2S13
11LT	P2010
7M +	P2E3
7M −	P2C9
32LT	P2C11
31LT	P2P9
30LT	P2P7
29LT	P2P5
28LT	P2P3
R5-Wiper	P2B14
10LT	P2B10
113LT	J17A26
112LT	J17A24
111LT	J17A27
61LT	P2D2
37LT	P2S3
SW28-3	J17A13
SW28-2	J17A14
SW28-1	J17A15
108LT	J17A23
109LT	J17A22
110LT	J17A8
107LT	J17A28
106LT	J17A25
105LT	J17A9
104LT	J17A7
100LT	J17A10

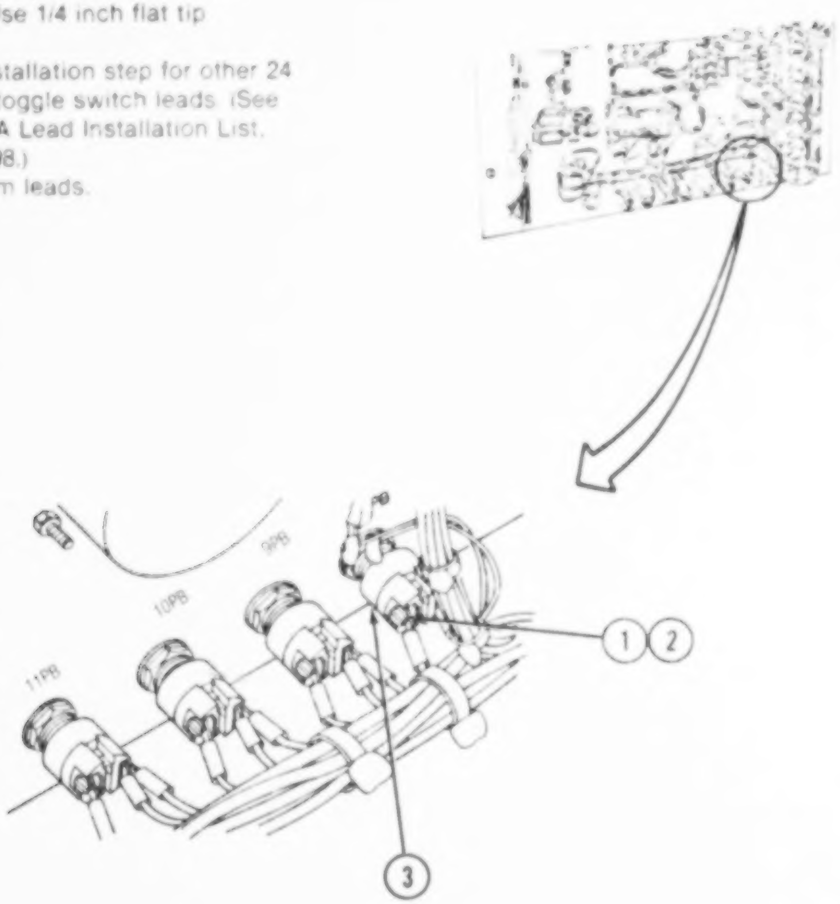
NOTE

Cable Assembly P2, P80, and J17A leads are installed on BACP pushbutton and toggle switches the same way. Step 15 shows Lead P2S7. Install leads in order given in P2, P80, and J17A Lead Installation List, Part D, Page 11-98.

• • • •

Three terminals receive two leads each. Do not make these connections until both leads are in place.

15. INSTALL 25 UPPER AND LOWER BUNDLE LEADS ON BACP PUSHBUTTON SWITCHES AND TOGGLE SWITCHES.
    - Install Lead P2S7 (1) and screw (2) on Switch 8PB (3). Use 1/4 inch flat tip screwdriver.
    - Repeat above installation step for other 24 pushbutton and toggle switch leads. (See P2, P80, and J17A Lead Installation List, Part D, Page 11-98.)
    - Remove tags from leads.



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B. INSTALLATION — Continued

P2, P80, AND J17A LEAD IDENTIFICATION LIST, PART D

Location on BACP	Destination	Wire Bundle (U = upper L = lower)
8PB	P2S7	L
9PB	P2S9	L
10PB	P2U1	L
11PB	P2U3	L
12PB	P2U5	L
13PB	P2U7	L
14PB	P2U11	L
15PB	P2U13	L
SW32-3	P80N	L
SW31-3	J17A35	L
SW29-2	J17A39	L
SW30-2	J17A42	L
SW20-2	J17A40	L
SW21-2	J17A41	L
SW24-3	P80A	U
SW20-1	P2G13/P2J13	U
5PB	P2N3	U
6PB	P2N5	U
7PB	P2B2	U
17SW5	P2G15/P2J15	U
17SW2	P2H14/P2K14	U
17SW1	J17A21	U

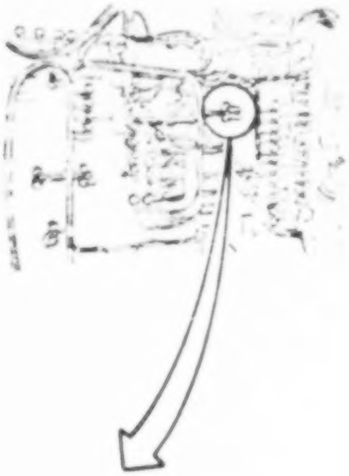
WARNING

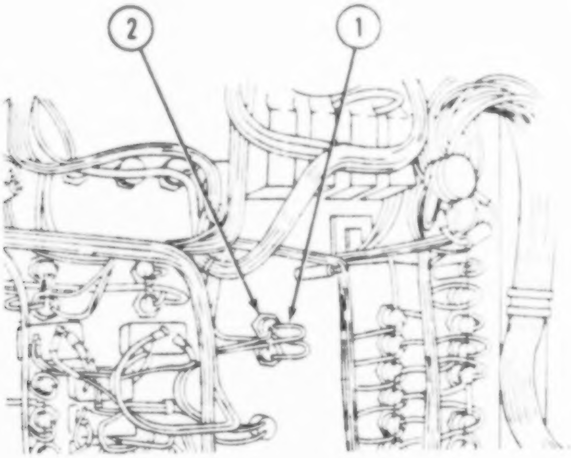
Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

NOTE

Cable Assembly P2, P80, and J17A leads are soldered at BACP lampholders and Toggle Switch 15SW the same way. Step 15 shows Lead P2U9. Solder leads in order given in P2, P80, and J17A Lead Installation List, Part E, Page 11-100.

16. SOLDER 35 UPPER BUNDLE LEADS AT BACP LAMPHOLDERS AND TOGGLE SWITCH 15SW. (SEE TM 55-1500-323-25.)
    - Route Lead P2U9 (1) to Lampholder 9LT (2). (See P2, P80, and J17A Lead Installation List, Part E, Page 11-100.)
    - Cut Lead P2U9 (1) to length. Use diagonal cutting pliers.
    - Prepare Lead P2U9 (1) for soldering. (See TM 55-1500-323-25.)
    - Solder Lead P2U9 (1) at Lampholder 9LT (2). (See TM 55-1500-323-25.)
    - Repeat above soldering steps for other 34 upper bundle leads. (See P2, P80, and J17A Lead Installation List, Part E, Page 11-100.)





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B. INSTALLATION — Continued

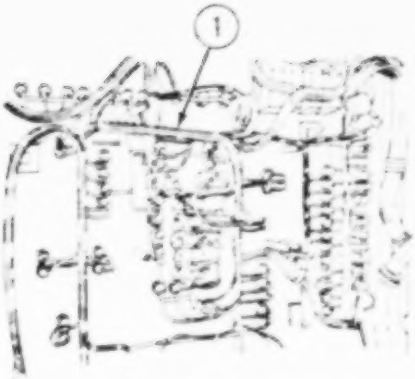
P2, P80, AND J17A LEAD INSTALLATION LIST, PART E

NOTE

All leads are in lower wire bundle

Location on BACP	Destination
9LT	P2U9
15SW1	P2N7
45LT	P2D6
44LT	P2C7
43LT	P2C13
41LT	P1E9
60LT	P2A13
38LT	P2B4
40LT	P206
39LT	P2E5
54LT	P2T14
53LT	P2T12
34LT	P2A11
33LT	P208
36LT	P204
35LT	P2F10
26LT	P2R12
23LT	P2R6
27LTB	P2R14
27LTA	P2L15
25LT	P1R10
50LT	P2B6
49LT	P2C1
48LT	P2C15
46LT	P2E11
52LT	P2T10
51LT	P2T8
55LT	P2N1
56LT	P2M14
57LT	P2M10
58LT	P2M8
59LT	P2M12
100LT	J17A10
101LT	J17A19
102LT	J17A16
103LT	J17A20

17. SHRINK MARKING SLEEVES ON P2, P80, AND J17A LEADS. (SEE TM 55-1500-323-25.)
    - Remove masking tape from P2, P80, and J17A leads (1).
    - Shrink marking sleeves on P2, P80, and J17A leads (1). (See TM 55-1500-323-25.)



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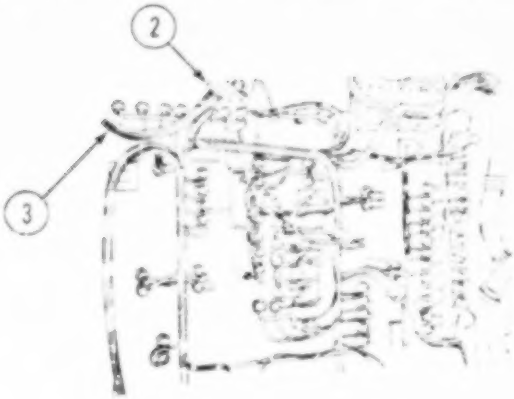
18. PLACE CUSHION CLAMP (2) AROUND J17A LEADS (3).

19. INSTALL CIRCUIT CARD ASSEMBLY CCA17 ON DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-195.)

20. INSTALL DIODE BOARD ON DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-195.)



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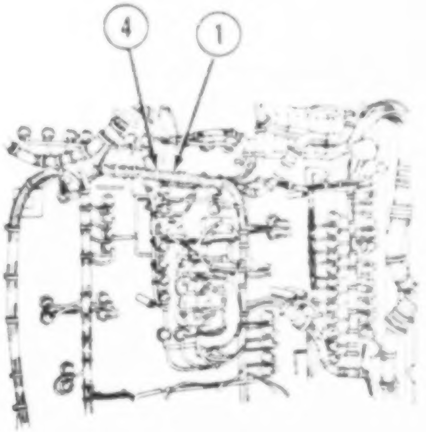
21. INSTALL NEW CABLE TIES ON P2, P80, AND J17A LEADS.
    - Install new cable ties (4) on P2, P80, and J17A leads (1). Use round nose pliers.



CIRCUIT CARD ASSEMBLY CCA17 AND DIODE BOARD REMOVED FOR CLARITY

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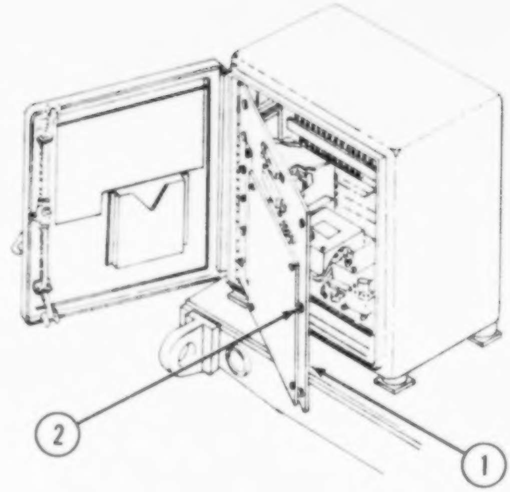
B. INSTALLATION — Continued

22. CLOSE BACP.
    - Close BACP (1), and tighten three panel fasteners (2). Use 3/8 inch flat tip screwdriver.



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)

Close Right Battery Box Cover. (See TM 9-1095-205-10.)

Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)

Close BITE Panel Door. (See TM 9-1095-205-10.)

Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

END OF TASK

11-8 CARD RACK ASSEMBLY

DESCRIPTION

This task covers: A. REMOVAL (p 11-103)
B. INSTALLATION (p 11-106)

INITIAL SETUP

Tools and Special Tools:
General mechanic's tool kit
5180-00-177-7033:
1/4 inch flat tip screwdriver
No. 2 cross tip screwdriver
6 inch adjustable wrench
Ratchet handle
7/16 inch socket
2 inch extension
10 inch extension

Materials/Parts:
Lock washer (16) 5310-00-559-0070
Lock washer (8) 5310-00-550-1130

Personnel Required:
Electrical repairer
Helper

References:
TM 9-1095-205-10
TM 9-1095-205-20
CIRCUIT CARD ASSEMBLIES, Page 11-265

A. REMOVAL

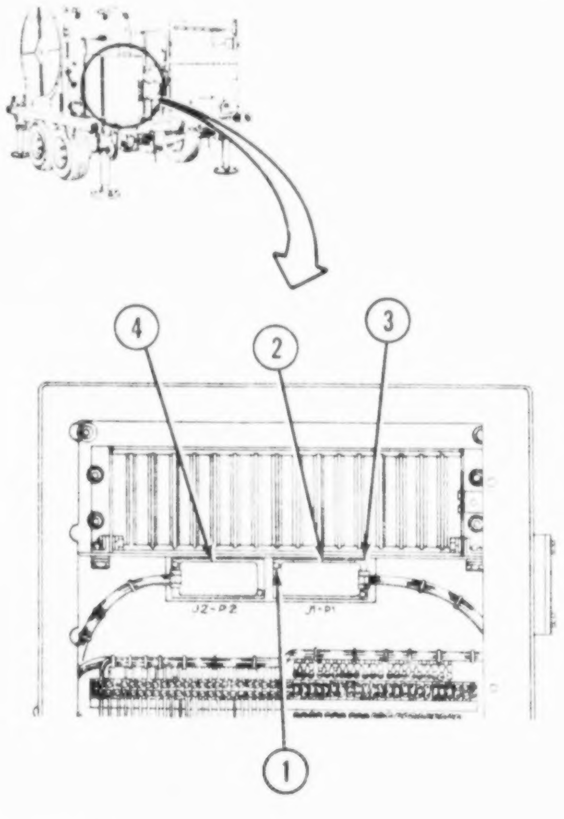
NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)
Remove Circuit Card Assemblies. (See Circuit Card Assemblies, Page 11-265.)

NOTE

Plug Connectors P1 and P2 are disconnected the same way.

1. DISCONNECT PLUG CONNECTORS P1 AND P2 FROM RECEPTACLES J1 AND J2.
   - Loosen two screws (1). Use 1/4 inch flat tip screwdriver.
   - Disconnect Connector P1 (2) from Receptacle J1 (3).
   - Repeat above disconnect steps for Connector P2 (4).



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A. **REMOVAL — Continued**

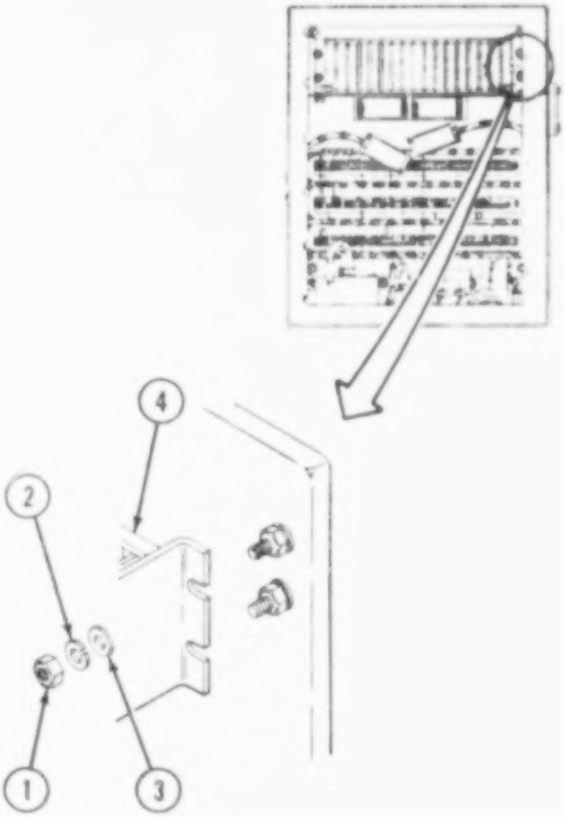
CAUTION

Card rack assembly electrical parts can be damaged if card rack assembly falls. Support card rack assembly during removal.

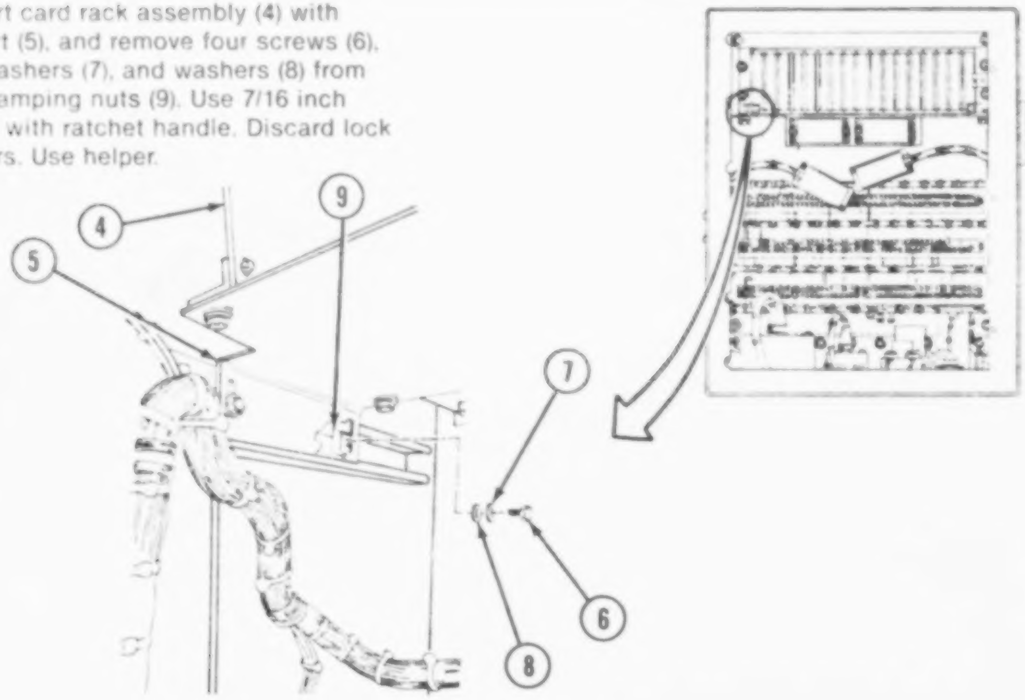
• • • •

Card rack assembly electrical parts can be damaged when card rack assembly is rotated for removal. Rotate card rack assembly carefully.

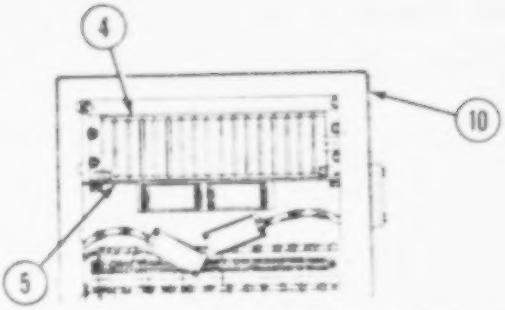
2. REMOVE CARD RACK ASSEMBLY WITH CARD RACK SUPPORT FROM ELECTRICAL ENCLOSURE.
   - Remove four nuts (1), lock washers (2), and washers (3) from card rack assembly (4). Use 7/16 inch socket with 10 inch and 2 inch extensions and ratchet handle. Discard lock washers.



- Support card rack assembly (4) with support (5), and remove four screws (6), lock washers (7), and washers (8) from four clamping nuts (9). Use 7/16 inch socket with ratchet handle. Discard lock washers. Use helper.



- Remove card rack assembly (4) with support (5) from enclosure (10).



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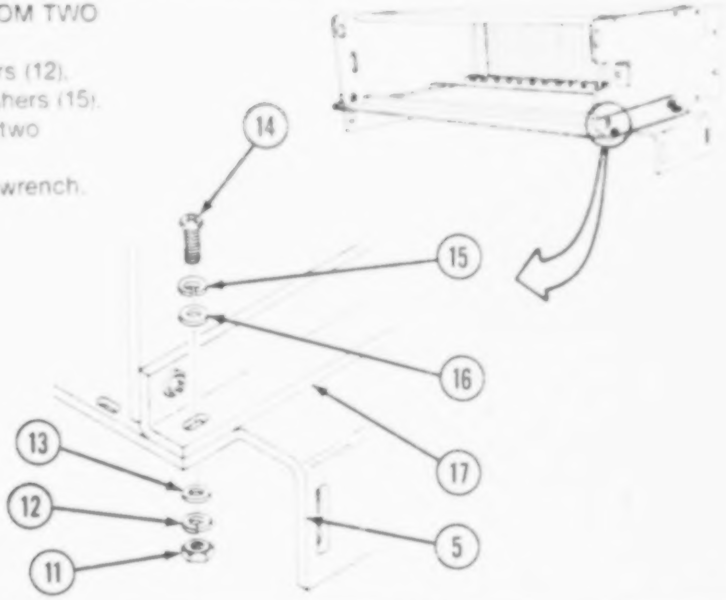
3. REMOVE CARD RACK SUPPORT FROM TWO CARD RACK BRACKETS.
   - Remove four nuts (11), lock washers (12), washers (13), screws (14), lock washers (15), washers (16), and support (5) from two brackets (17). Use No. 2 cross tip screwdriver and 6 inch adjustable wrench. Discard lock washers.



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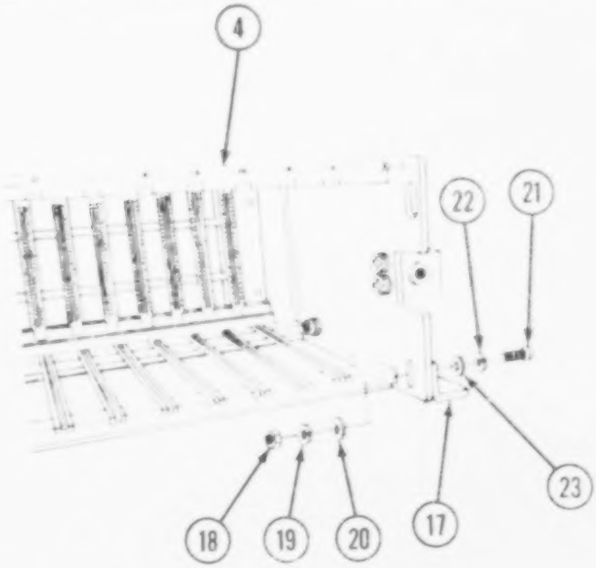
4. REMOVE TWO CARD RACK BRACKETS FROM CARD RACK ASSEMBLY.
   - Remove four nuts (18), lock washers (19), washers (20), screws (21), lock washers (22), washers (23), and two brackets (17) from card rack assembly (4). Use No. 2 cross tip screwdriver and 6 inch adjustable wrench. Discard lock washers.



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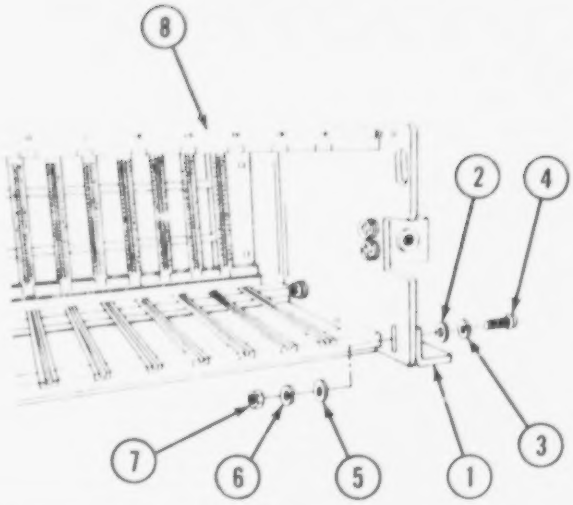
11-8 CARD RACK ASSEMBLY — Continued

B. INSTALLATION

1. INSTALL TWO CARD RACK BRACKETS ON CARD RACK ASSEMBLY.
   - Install two brackets (1), four washers (2), new lock washers (3), screws (4), washers (5), lock washers (6), and nuts (7) on card rack assembly (8).



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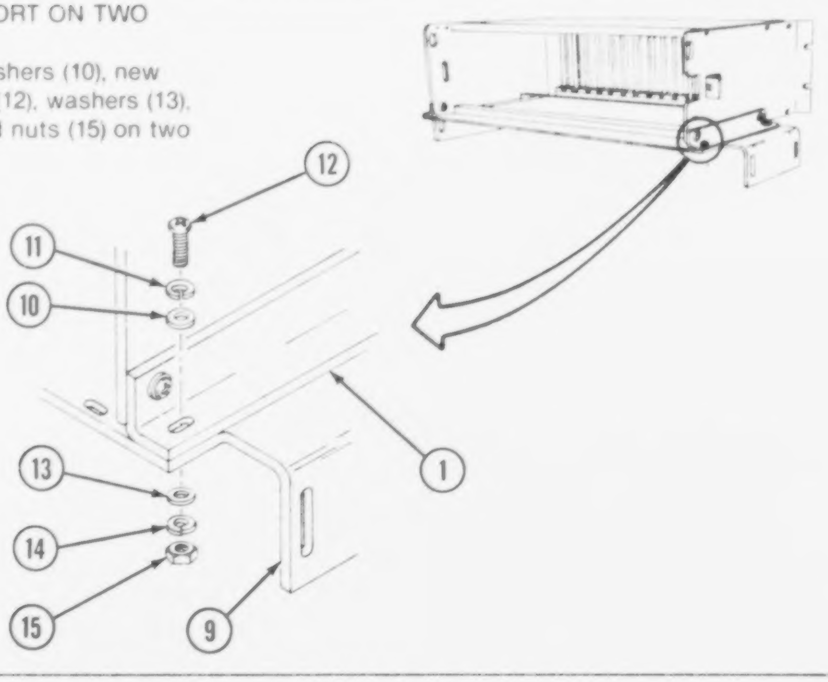
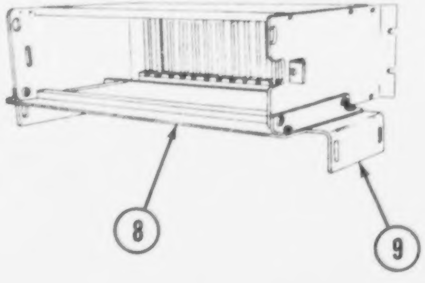
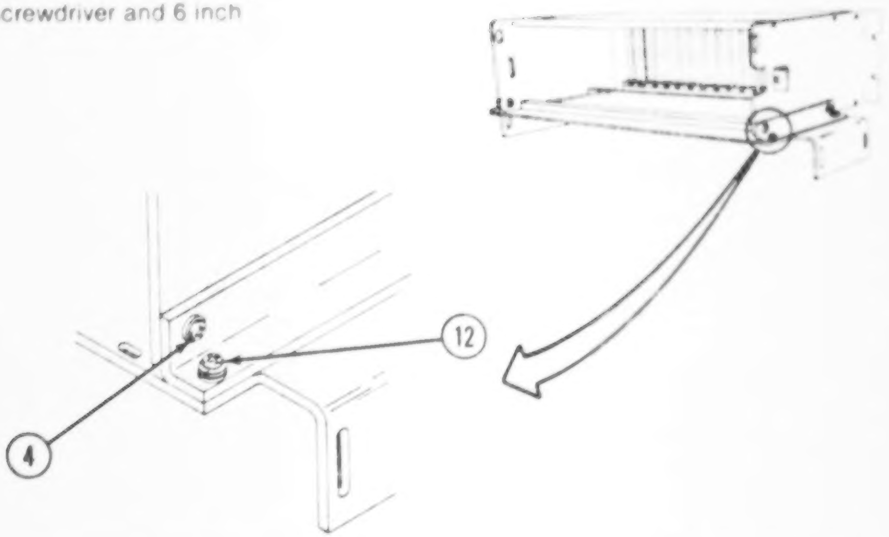
2. INSTALL CARD RACK SUPPORT ON TWO CARD RACK BRACKETS.
   - Install support (9), four washers (10), new lock washers (11), screws (12), washers (13), new lock washers (14), and nuts (15) on two brackets (1).



- Center card rack assembly (8) on support (9).



- Tighten four screws (4) and four screws (12). Use No. 2 cross tip screwdriver and 6 inch adjustable wrench.



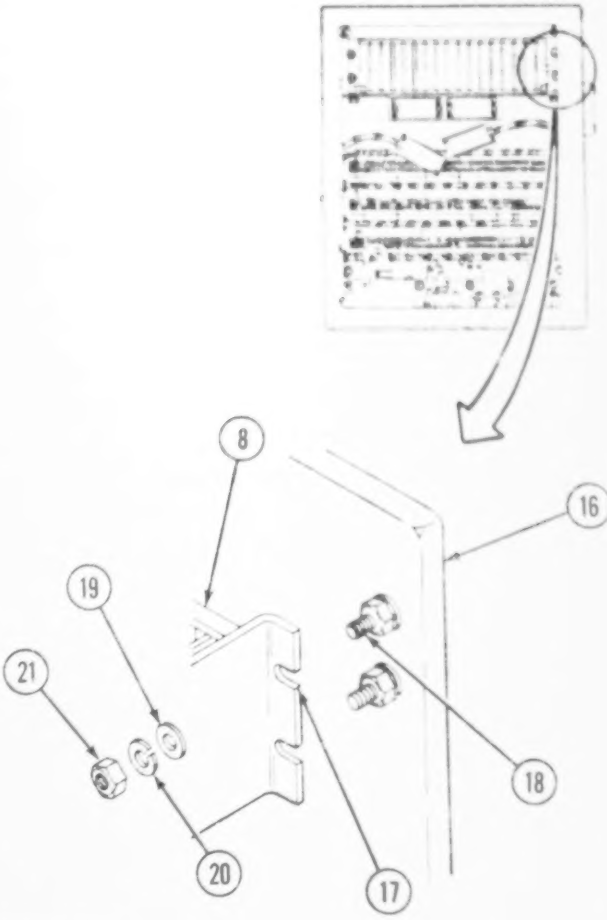
CAUTION

Card rack assembly electrical parts can be damaged if card rack assembly falls. Support card rack assembly during installation.

• • • •

Card rack assembly electrical parts can be damaged when card rack assembly is rotated for installation. Rotate card rack assembly carefully.

3. INSTALL CARD RACK ASSEMBLY WITH CARD RACK SUPPORT IN ELECTRICAL ENCLOSURE.
   - Position card rack assembly (8) on terminal panel (16), with four card rack mounting slots (17) on four mounting screws (18).
   - Install card rack assembly (8), four washers (19), new lock washers (20), and nuts (21) on four mounting screws (18). Use helper.



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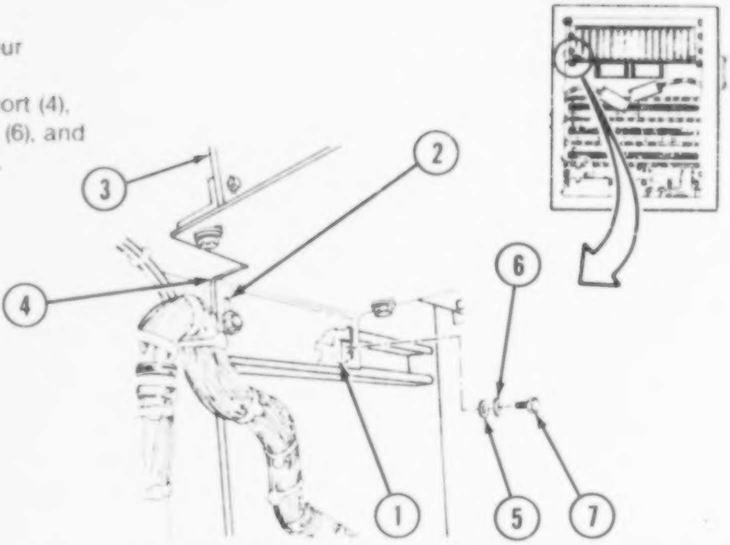
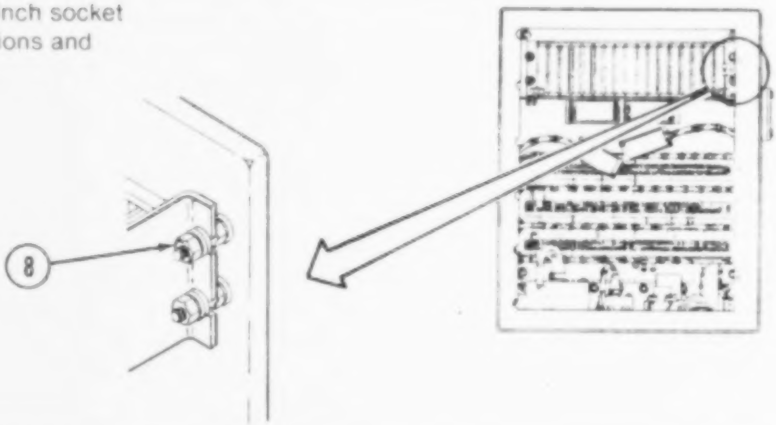
B. INSTALLATION — Continued

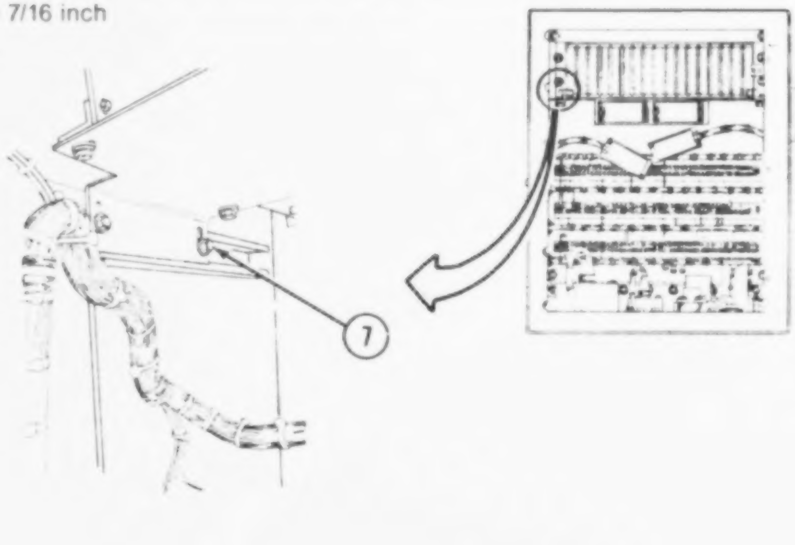
- Aline four clamping nuts (1) with four support mounting slots (2).
- Install card rack assembly (3), support (4), four washers (5), new lock washers (6), and screws (7) in four clamping nuts (1).



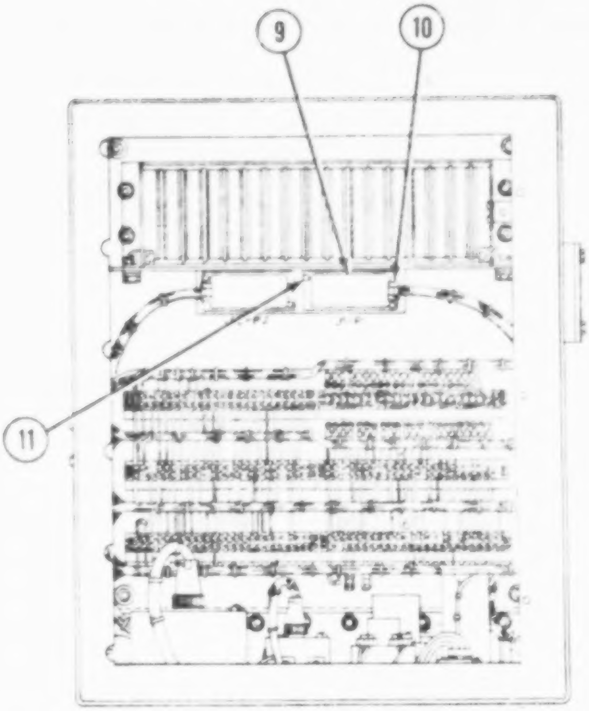
- Tighten four nuts (8). Use 7/16 inch socket with 10 inch and 2 inch extensions and ratchet handle.



- Tighten four screws (7). Use 7/16 inch socket with ratchet handle.



4. CONNECT PLUG CONNECTORS P1 AND P2 TO RECEPTACLES J1 AND J2.
   - Connect Connector P1 (9) to Receptacle J1 (10).
   - Tighten two screws (11). Use 1/4 inch flat tip screwdriver.
   - Repeat above connect steps for Connector P2.



NOTE

FOLLOW-ON MAINTENANCE:

Install Circuit Card Assemblies. (See Circuit Card Assemblies, Page 11-265.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)

END OF TASK

11-9 POWER PANEL ASSEMBLY

DESCRIPTION

This task covers:

A. POWER MODULE PS-1 AND PLATE REMOVAL (p 11-112)
B. POWER MODULE PS-1 AND PLATE INSTALLATION (p 11-115)
C. POWER MODULE PS-2 AND PLATE REMOVAL (p 11-116)
D. POWER MODULE PS-2 AND PLATE INSTALLATION (p 11-118)
E. RELAY K1 REMOVAL (p 11-120)
F. RELAY K1 INSTALLATION (p 11-121)
G. RELAY K2 REMOVAL (p 11-123)
H. RELAY K2 INSTALLATION (p 11-124)
I. RELAYS K3, K4, AND K5 REMOVAL (p 11-126)
J. RELAYS K3, K4, AND K5 INSTALLATION (p 11-127)
K. RELAY MOUNTING BRACKETS REMOVAL (p 11-128)
L. RELAY MOUNTING BRACKETS INSTALLATION (p 11-129)
M. RESISTORS R1, R2, R3, AND R4 REMOVAL (p 11-130)
N. RESISTORS R1, R2, R3, AND R4 INSTALLATION (p 11-131)
O. RESISTORS R1, R2, R3, AND R4 MOUNTING BRACKETS REMOVAL (p 11-132)
P. RESISTORS R1, R2, R3, AND R4 MOUNTING BRACKETS INSTALLATION (p 11-133)
Q. RESISTOR R5 REMOVAL (p 11-135)
R. RESISTOR R5 INSTALLATION (p 11-136)
S. CAPACITOR C1 REMOVAL (p 11-137)
T. CAPACITOR C1 INSTALLATION (p 11-138)
U. CAPACITOR MOUNTING BRACKET REMOVAL (p 11-139)
V. CAPACITOR MOUNTING BRACKET INSTALLATION (p 11-140)
W. DIODE D2 REMOVAL (p 11-141)
X. DIODE D2 INSTALLATION (p 11-142)
Y. DIODE D7 REMOVAL (p 11-143)
Z. DIODE D7 INSTALLATION (p 11-144)
AA. DIODE D2 MOUNTING BRACKET REMOVAL (p 11-145)
AB. DIODE D2 MOUNTING BRACKET INSTALLATION (p 11-146)
AC. DIODE D7 MOUNTING BRACKET REMOVAL (p 11-147)
AD. DIODE D7 MOUNTING BRACKET INSTALLATION (p 11-148)
AE. VOLTAGE REGULATOR VR1 AND HEAT SINK REMOVAL (p 11-149)
AF. VOLTAGE REGULATOR VR1 AND HEAT SINK INSTALLATION (p 11-150)
AG. VOLTAGE REGULATOR BRACKET REMOVAL (p 11-151)
AH. VOLTAGE REGULATOR BRACKET INSTALLATION (p 11-152)
AI. GROUND BUS REMOVAL (p 11-153)
AJ. GROUND BUS INSTALLATION (p 11-154)
AK. POWER PANEL ASSEMBLY EXTERNAL WIRING DISCONNECTION (p 11-156)
AL. POWER PANEL ASSEMBLY EXTERNAL WIRING CONNECTION (p 11-160)
AM. POWER PANEL ASSEMBLY REMOVAL (p 11-162)
AN. POWER PANEL ASSEMBLY DISASSEMBLY (p 11-163)
AO. POWER PANEL ASSEMBLY REASSEMBLY (p 11-164)
AP. POWER PANEL ASSEMBLY INSTALLATION (p 11-165)
AQ. POWER PANEL ASSEMBLY WIRING REMOVAL (p 11-167)
AR. POWER PANEL ASSEMBLY WIRING INSTALLATION (p 11-169)

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11-9 POWER PANEL ASSEMBLY — Continued

INITIAL SETUP

Tools and Special Tools:

- Electronic equipment tool kit 5180-00-605-0079:
  - Slip joint pliers (2)
  - 1/4 inch flat tip screwdriver
  - No. 2 offset cross tip screwdriver
  - 5/16 inch handled socket
  - 3/8 inch handled socket wrench
  - 7/16 inch handled socket wrench
  - 5/16 inch open end wrench
  - 7/16 inch open end wrench
  - 11/16 inch open end wrench
  - 3/8 inch open end wrench
- General mechanic's tool kit 5180-00-177-7033:
  - 3/8 inch flat tip screwdriver
  - No. 1 cross tip screwdriver
  - No. 2 cross tip screwdriver
- Socket wrench set 5120-00-322-6231:
  - 6 inch extension
  - Ratchet handle
  - 7/16 inch socket
  - 9/16 inch socket

Materials/Parts:

- Lock washer (8) 5310-00-579-5554
- Lock washer (13) 5310-00-579-0079
- Lock washer (28) 5310-00-559-0070
- Lock washer (20) 5310-00-579-5752
- Lock washer (3) 5310-00-550-1130
- Self-locking nut (2) 5310-00-878-3292
- 1/8 inch shrink tubing 5970-00-812-2629
- Lock washer (4) 5310-00-184-8977
- Lock washer (2) 5310-00-261-8278
- Lock washer (2) 5310-00-184-8970

Personnel Required:

- Electrical repairer

References:

- TM 9-1095-205-10
- TM 9-1095-205-20
- TM 55-1500-323-25
- POWER MODULE PS-1 ADJUSTMENT, Page 11-179
- POWER MODULE PS-2 ADJUSTMENT, Page 11-187

OVERVIEW

This procedure tells you how to remove and install each component of power panel assembly. Installation instructions follow removal instructions for each component. Illustrations show only wiring being removed or installed. Illustrations show power panel assembly removed from electrical enclosure assembly for clarity.

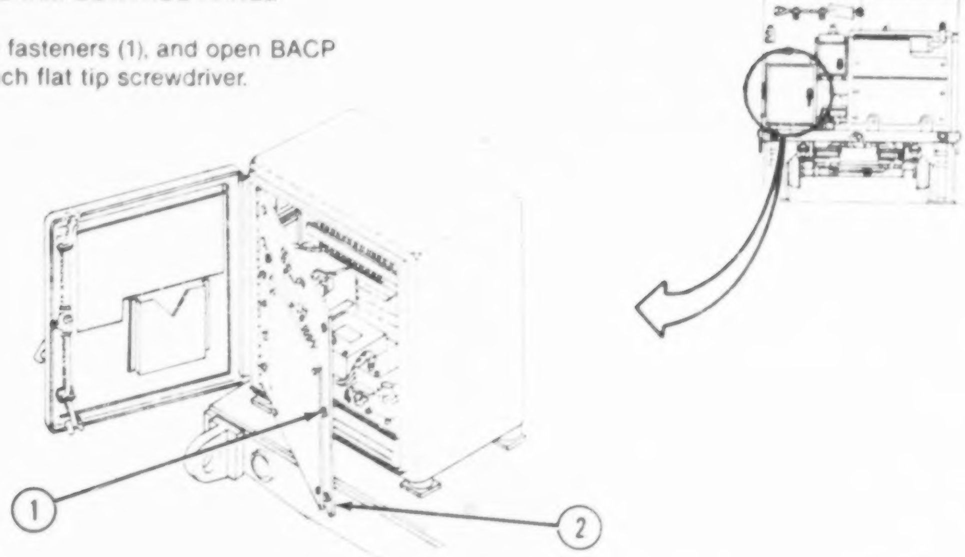
A. POWER MODULE PS-1 AND PLATE REMOVAL

NOTE

PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Loosen three fasteners (1), and open BACP (2). Use 3/8 inch flat tip screwdriver.



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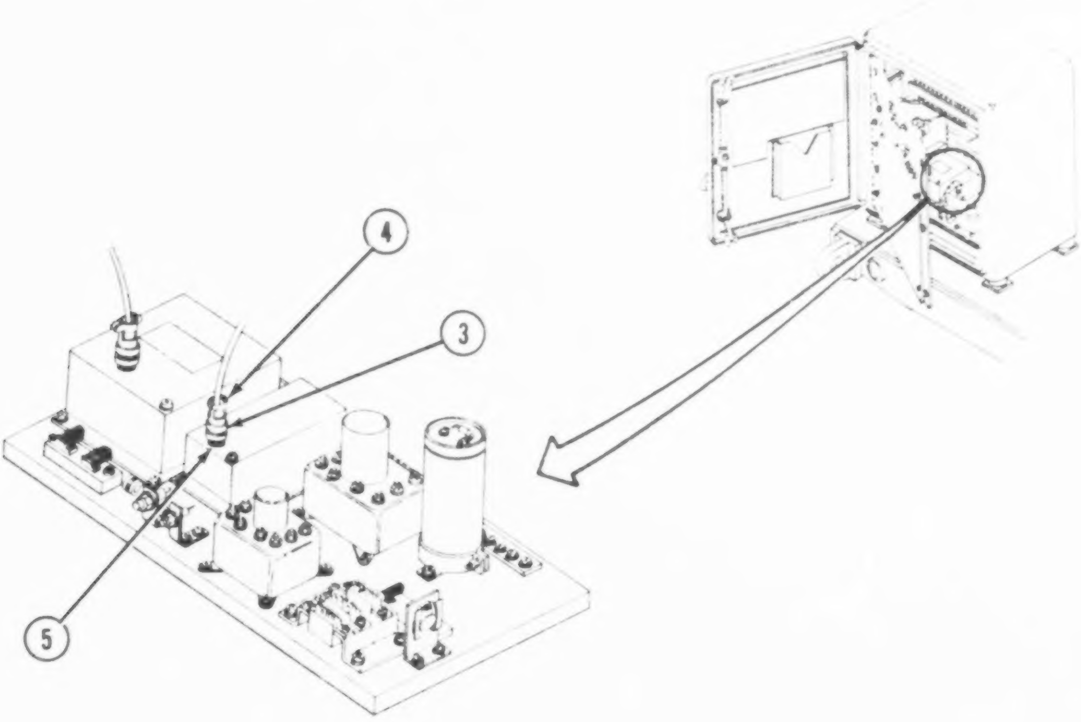
2. TURN CONNECTOR SLEEVE (3), AND DISCONNECT CONNECTOR P36 (4) FROM RECEPTACLE J36 (5).



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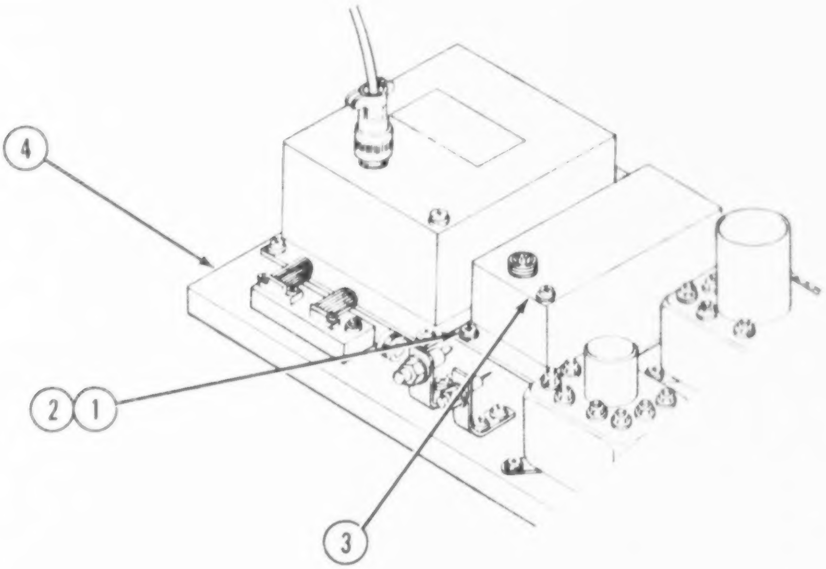
A. POWER MODULE PS-1 AND PLATE REMOVAL — Continued

3. REMOVE POWER MODULE PS-1 FROM POWER PANEL ASSEMBLY.
   - Remove four screws (1), lock washers (2), and power module (3) from power panel (4). Use No. 2 cross tip screwdriver. Discard lock washers.



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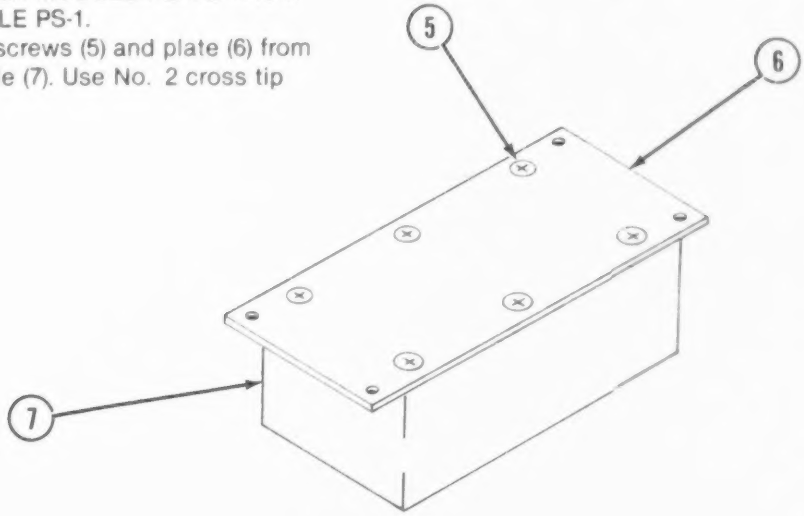
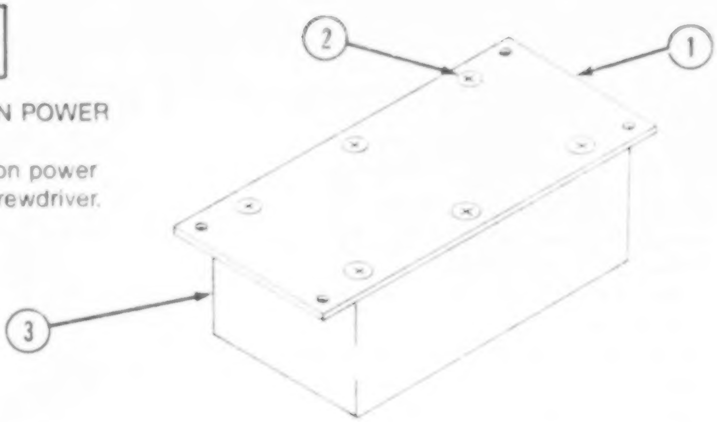
4. REMOVE POWER MODULE PLATE FROM POWER MODULE PS-1.
   - Remove six screws (5) and plate (6) from power module (7). Use No. 2 cross tip screwdriver.



B. POWER MODULE PS-1 AND PLATE INSTALLATION

1. INSTALL POWER MODULE PLATE ON POWER MODULE PS-1.
   - Install plate (1) and six screws (2) on power module (3). Use No. 2 cross tip screwdriver.



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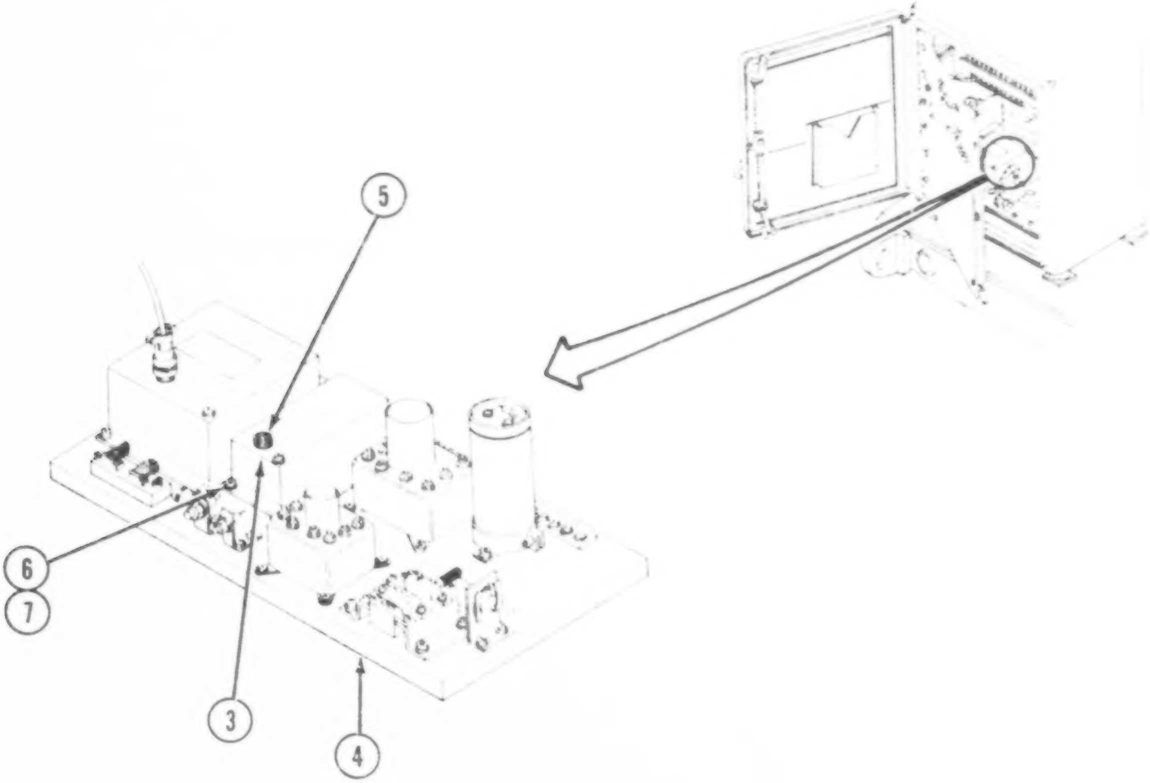
2. INSTALL POWER MODULE PS-1 ON POWER PANEL ASSEMBLY.
   - Position power module (3) on power panel (4) with Receptacle J36 (5) toward you.
   - Install power module (3), four new lock washers (6), and screws (7) on power panel (4). Use No. 2 cross tip screwdriver.



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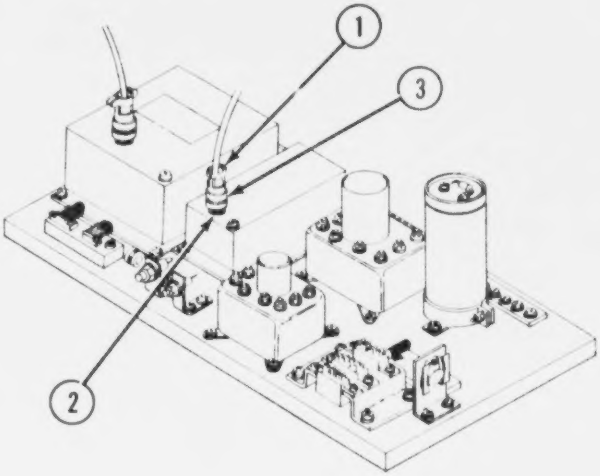
B. POWER MODULE PS-1 AND PLATE INSTALLATION — Continued

3. CONNECT CONNECTOR P36 (1) TO RECEPTACLE J36 (2), AND TURN CONNECTOR SLEEVE (3).

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Adjust Power Module PS-1. (See Power Module PS-1 Adjustment, Page 11-179.)
Shut Down Dispenser. (See TM 9-1095-205-10.)



C. POWER MODULE PS-2 AND PLATE REMOVAL

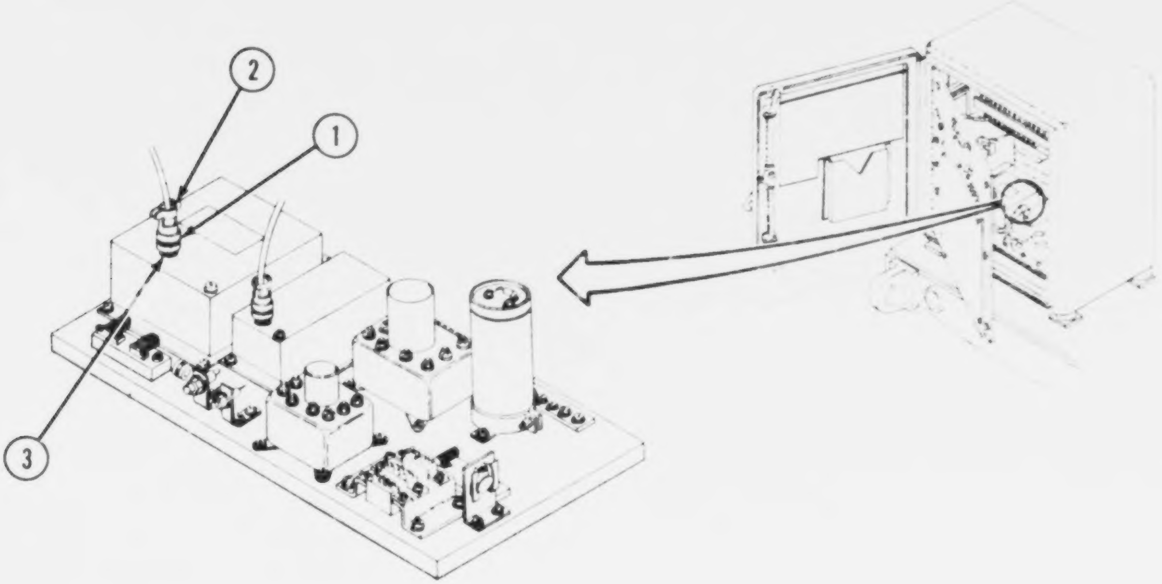
NOTE

PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

2. TURN CONNECTOR SLEEVE (1), AND DISCONNECT CONNECTOR P57 (2) FROM RECEPTACLE J57 (3).



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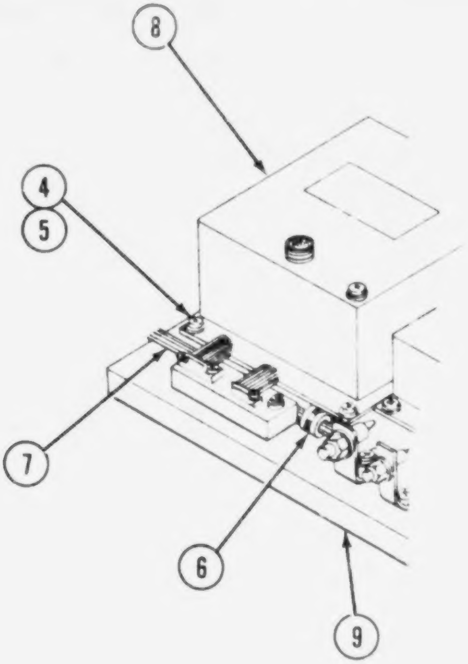
3. REMOVE POWER MODULE PS-2 FROM POWER PANEL ASSEMBLY.
   - Remove four screws (4), lock washers (5), clamp (6) with wire bundle (7), and power module (8) from power panel (9). Use No. 2 cross tip screwdriver. Discard lock washers.



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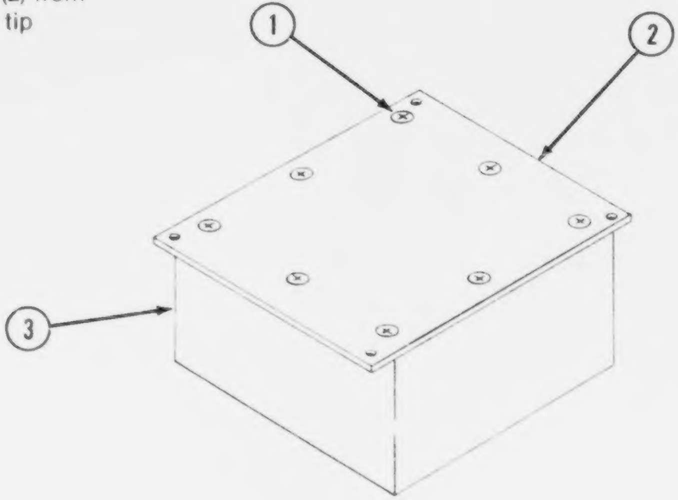
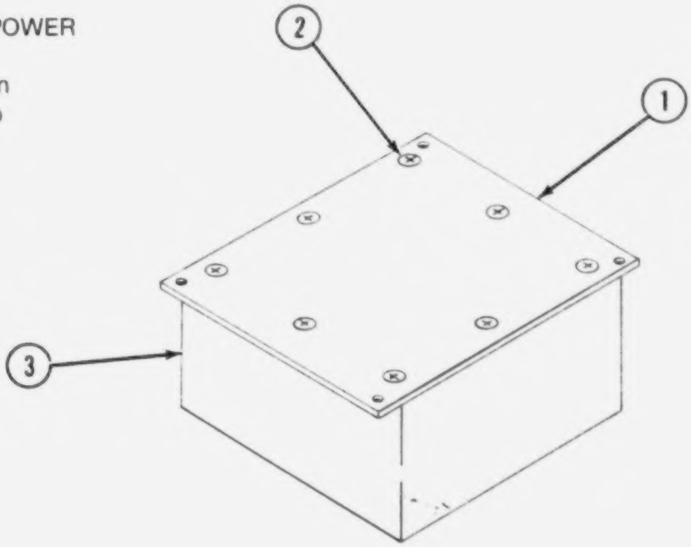
C. POWER MODULE PS-2 AND PLATE REMOVAL — Continued

4. REMOVE POWER MODULE PLATE FROM POWER MODULE PS-2.
   - Remove eight screws (1) and plate (2) from power module (3). Use No. 2 cross tip screwdriver.

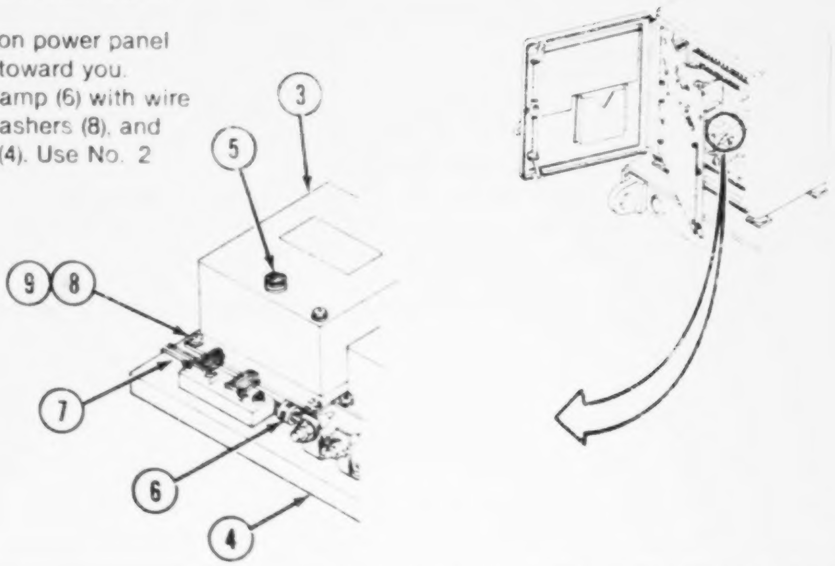


D. POWER MODULE PS-2 AND PLATE INSTALLATION

1. INSTALL POWER MODULE PLATE ON POWER MODULE PS-2.
   - Install plate (1) and eight screws (2) on power module (3). Use No. 2 cross tip screwdriver.



2. INSTALL POWER MODULE PS-2 ON POWER PANEL ASSEMBLY.
   - Position power module (3) on power panel (4) with Receptacle J57 (5) toward you.
   - Install power module (3), clamp (6) with wire bundle (7), four new lock washers (8), and screws (9) on power panel (4). Use No. 2 cross tip screwdriver.



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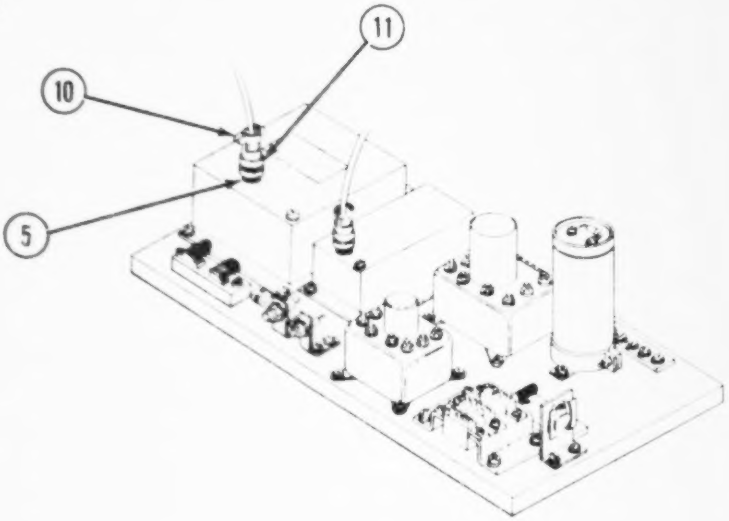
3. CONNECT CONNECTOR P57 (10) TO RECEPTACLE J57 (5), AND TURN CONNECTOR SLEEVE (11).



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Adjust Power Module PS-2. (See Power Module PS-2 Adjustment, Page 11-187.)
Shut Down Dispenser. (See TM 9-1095-205-10.)

GO TO NEXT PAGE

11-9 POWER PANEL ASSEMBLY — Continued

E. RELAY K1 REMOVAL

NOTE

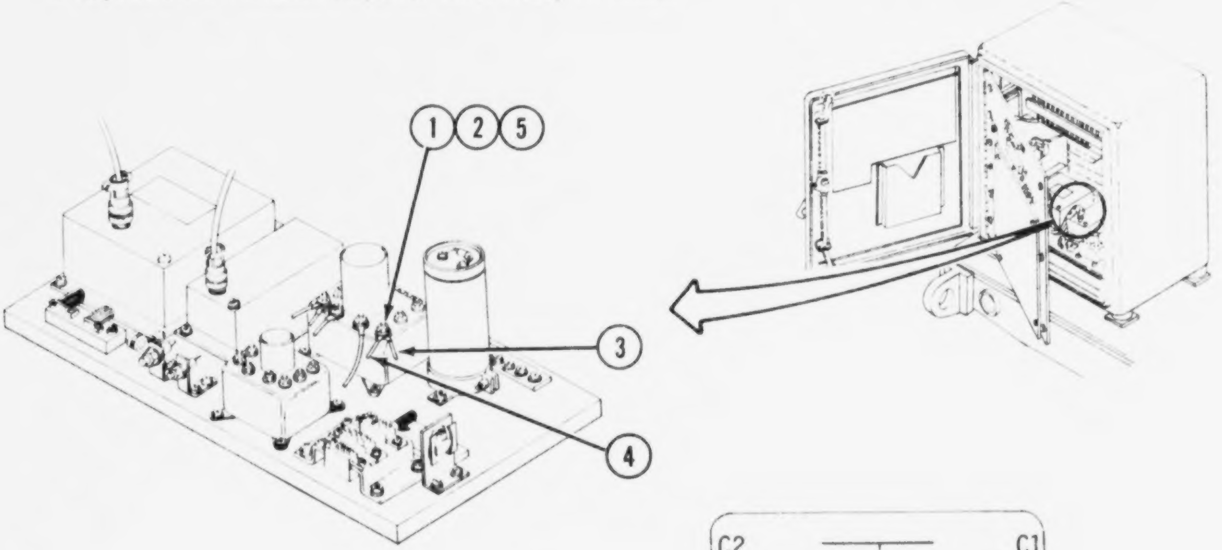
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

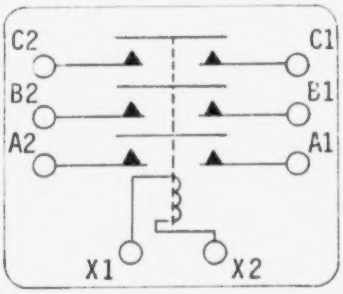
1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

NOTE

Relay K1 leads are removed the same way. Step 2 shows Lead No. 1 and jumper lead.

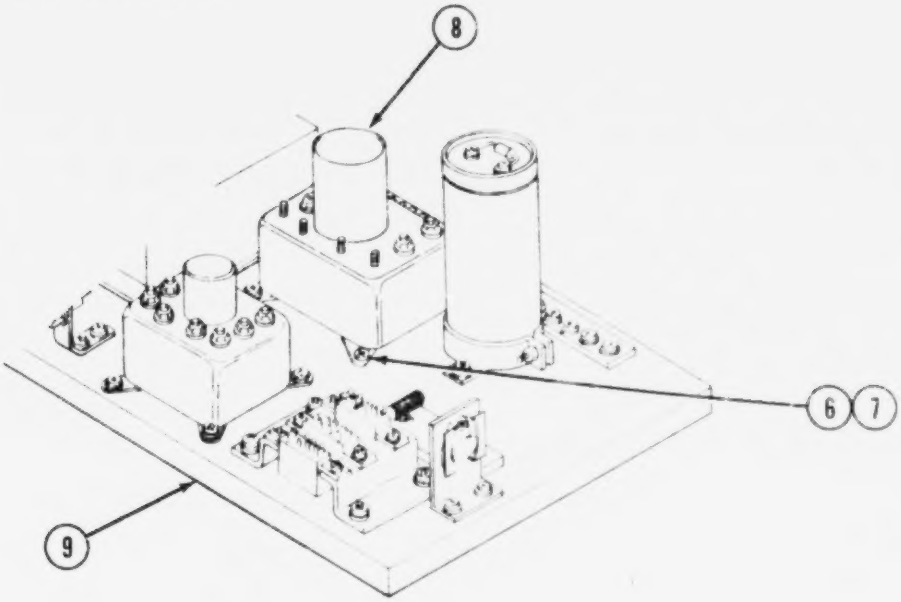
2. REMOVE LEADS FROM RELAY K1.
   - Identify terminal designations. (See following Relay K1 Schematic.)
   - Tag and mark leads. (See following Relay K1 Schematic.)
   - Remove nut (1), washer (2), Lead No. 1 (3), and jumper lead (4) from Relay K1 Terminal A1 (5). Use 7/16 inch handled socket.
   - Repeat above removal steps for other Relay K1 leads.





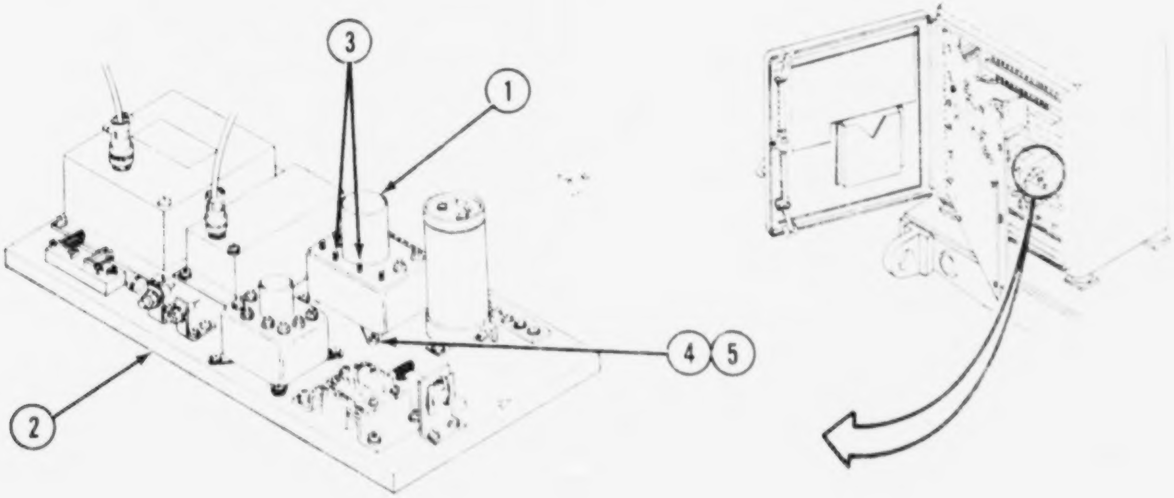
Relay K1 Schematic

3. REMOVE RELAY K1 FROM POWER PANEL.
   - Remove four screws (6), lock washers (7), and Relay K1 (8) from power panel (9). Use No. 2 cross tip screwdriver. Discard lock washers.



F. RELAY K1 INSTALLATION

1. INSTALL RELAY K1 ON POWER PANEL.
   - Position Relay K1 (1) on power panel (2) with terminals (3) towards you.
   - Install Relay K1 (1), four new lock washers (4), and screws (5) on power panel (2). Use No. 2 cross tip screwdriver.



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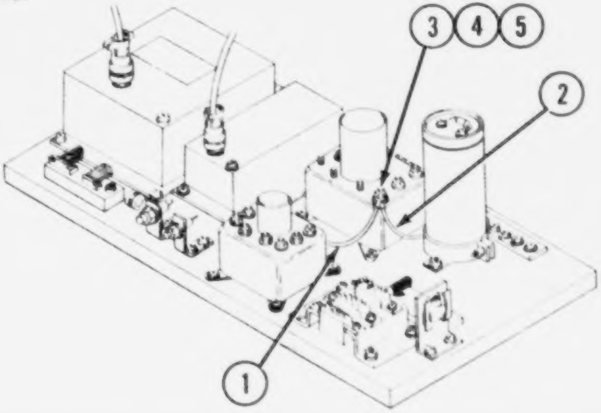
F. RELAY K1 INSTALLATION — Continued

NOTE

Relay K1 leads are installed the same way. Step 2 shows Lead No. 1 and jumper lead.

2. INSTALL LEADS ON RELAY K1.
   - Install jumper lead (1), Lead No. 1 (2), washer (3), and nut (4) on Relay K1 Terminal A1 (5). Use 7/16 inch handled socket wrench.
   - Repeat above installation step for other Relay K1 leads. (See Relay K1 Schematic, Page 11-120.)
   - Remove tags from leads.



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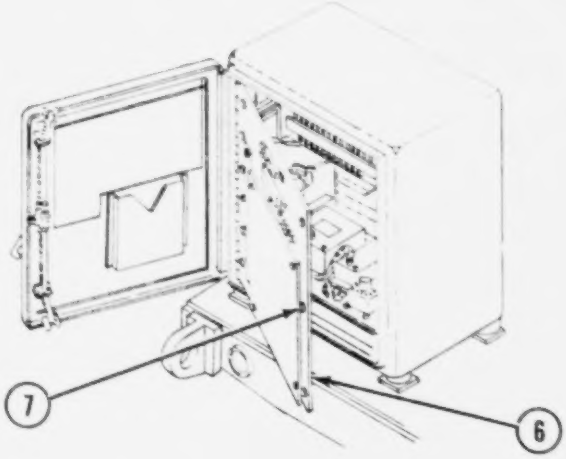
3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Close BACP (6), and tighten three fasteners (7). Use 3/8 inch flat tip screwdriver.

NOTE

FOLLOW-ON MAINTENANCE:
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)



G. RELAY K2 REMOVAL

NOTE

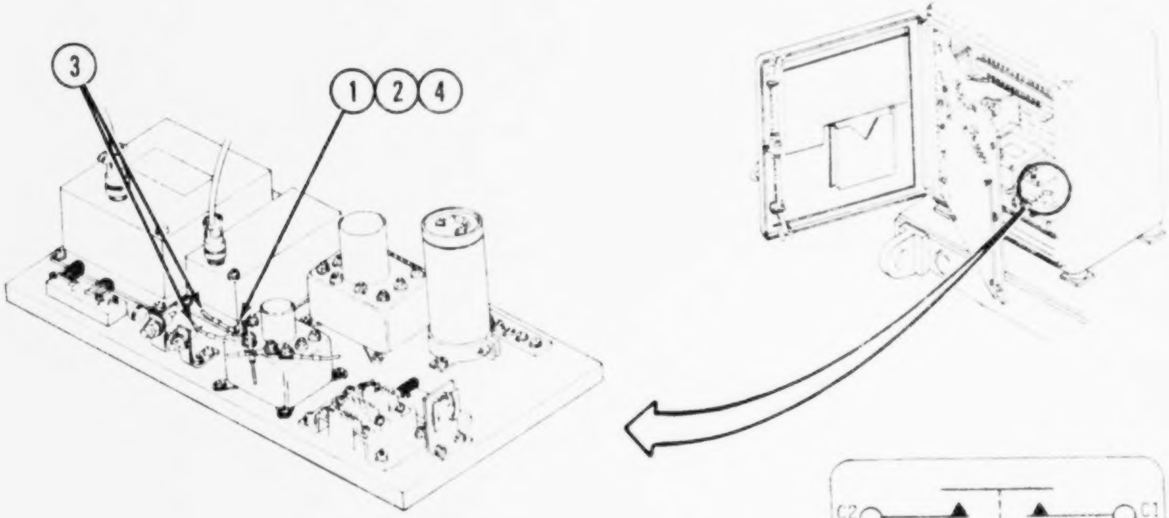
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

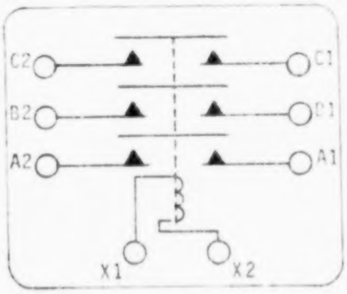
1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

NOTE

Relay K2 leads are removed the same way. Step 2 shows Leads No. 5.

2. REMOVE LEADS FROM RELAY K2.
   - Identify terminal designations. (See following Relay K2 Schematic.)
   - Tag and mark leads. (See following Relay K2 Schematic.)
   - Remove nut (1), washer (2), and Leads No. 5 (3) from Relay K2 Terminal A2 (4). Use 3/8 inch handled socket.
   - Repeat above removal steps for other Relay K2 leads.





Relay K2 Schematic

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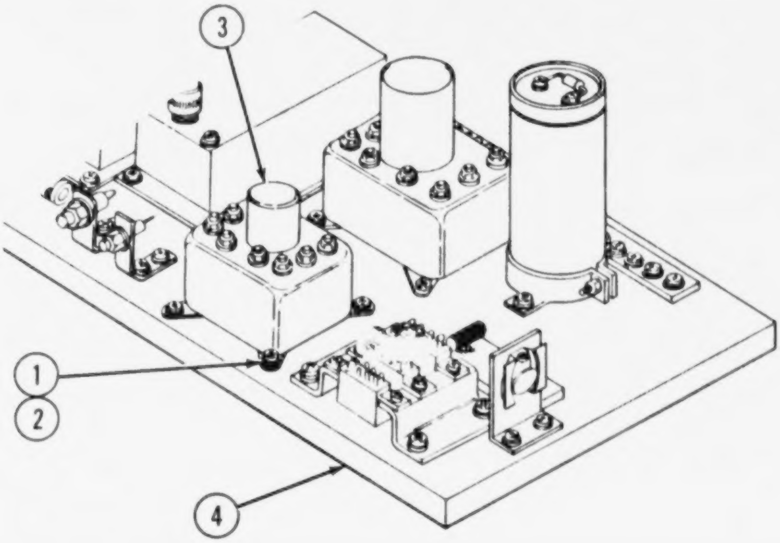
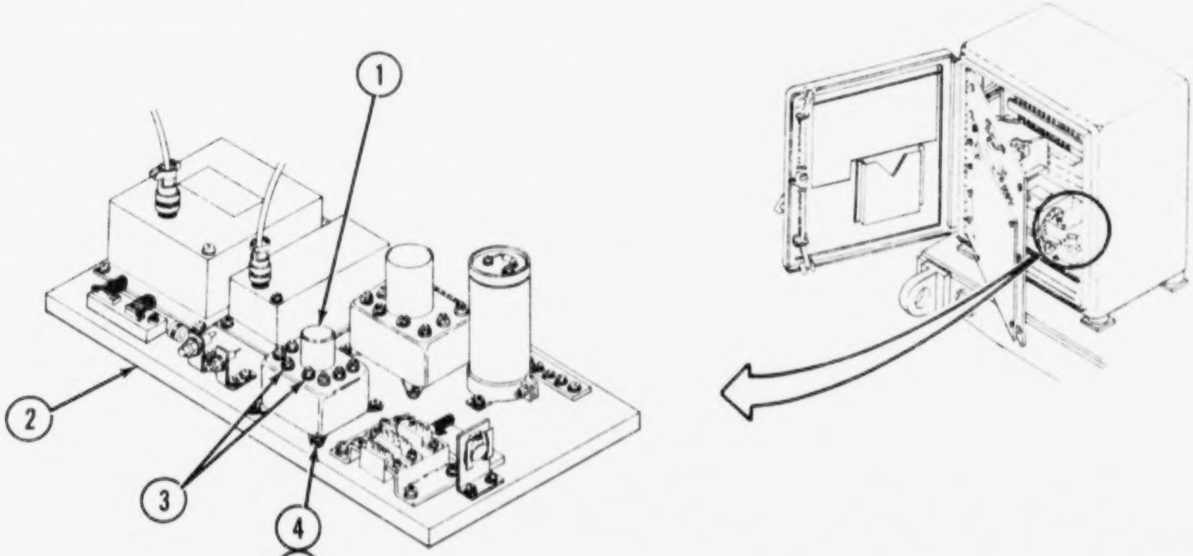
G. RELAY K2 REMOVAL — Continued

3. REMOVE RELAY K2 FROM POWER PANEL.
   - Remove four screws (1), lock washers (2), and Relay K2 (3) from power panel (4). Use No. 2 cross tip screwdriver. Discard lock washers.



H. RELAY K2 INSTALLATION

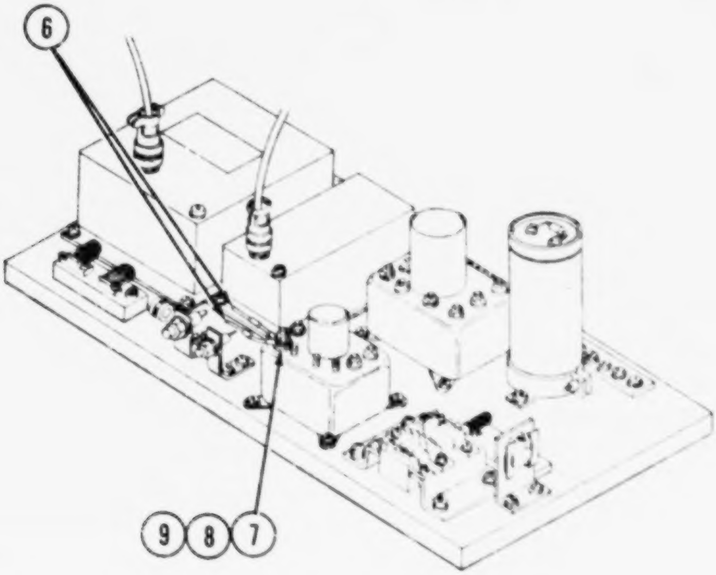
1. INSTALL RELAY K2 ON POWER PANEL.
   - Position Relay K2 (1) on power panel (2), with terminals (3) toward you.
   - Install Relay K2 (1), four new lock washers (4), and screws (5) on power panel (2). Use No. 2 cross tip screwdriver.



NOTE

Relay K2 leads are installed the same way. Step 2 shows Leads No. 5.

2. INSTALL LEADS ON RELAY K2.
   - Install Leads No. 5 (6), washer (7), and nut (8) on Relay K2, Terminal A2 (9). Use 3/8 inch handled socket.
   - Repeat above installation steps for other Relay K2 leads. (See Relay K2 Schematic, Page 11-123.)
   - Remove tags from leads.
3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

GO TO NEXT PAGE

11-9 POWER PANEL ASSEMBLY — Continued

I. RELAYS K3, K4, AND K5 REMOVAL

NOTE

PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

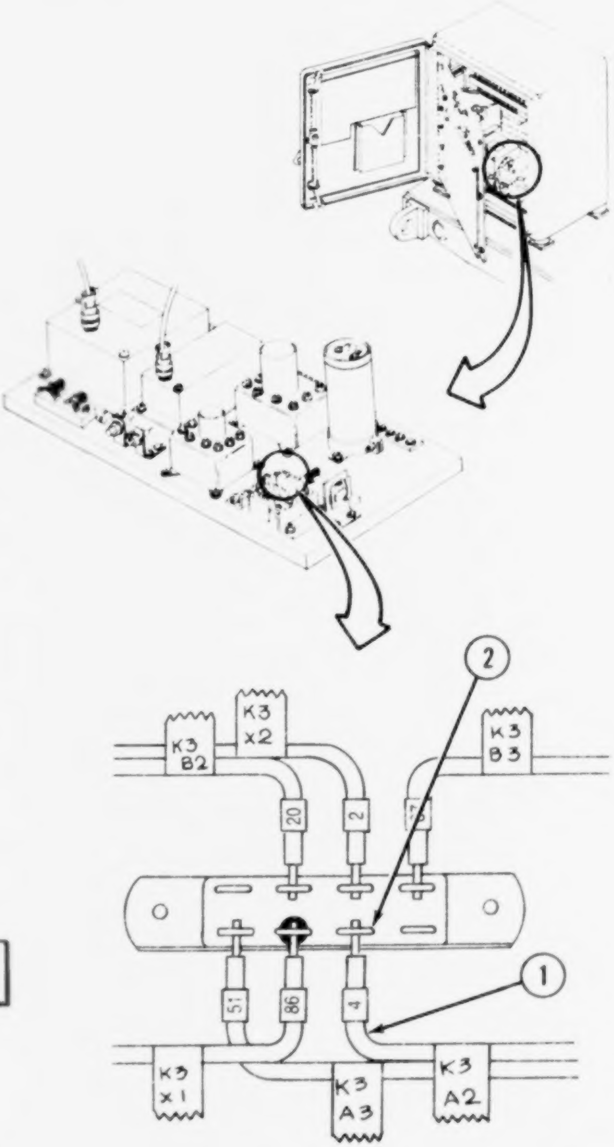
NOTE

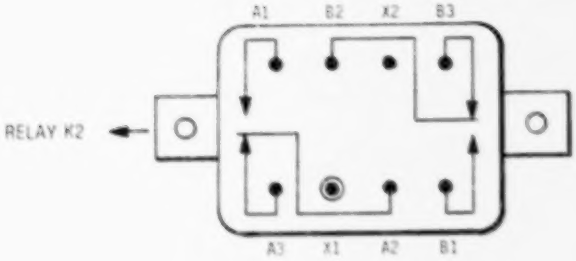
Relays K3, K4, and K5 are removed the same way. Steps 2 and 3 show Relay K3.

• • • •

Relay K3 leads are unsoldered the same way. Step 2 shows Lead No. 4.

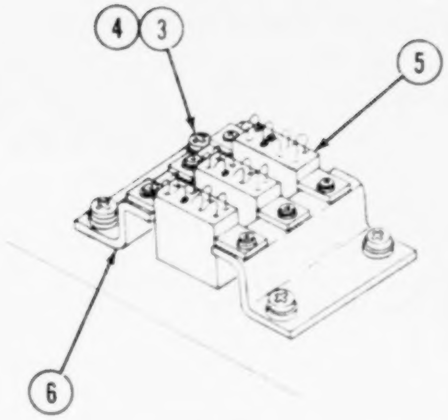
2. UNSOLDER LEADS AT RELAY K3. (SEE TM 55-1500-323-25.)
   - Identify terminal designations. (See following Relays K3, K4, and K5 Schematic.)
   - Tag and mark leads. (See following Relays K3, K4, and K5 Schematic.)
   - Unsolder Lead No. 4 (1) at Relay K3 Terminal A2 (2). (See TM 55-1500-323-25.)
   - Repeat above unsoldering steps for other Relay K3 leads.





Relays K3, K4, and K5 Schematic

3. REMOVE RELAY K3 FROM TWO MOUNTING BRACKETS.
   - Remove two screws (3), lock washers (4), and Relay K3 (5) from two mounting brackets (6). Use No. 2 cross tip screwdriver. Discard lock washers.

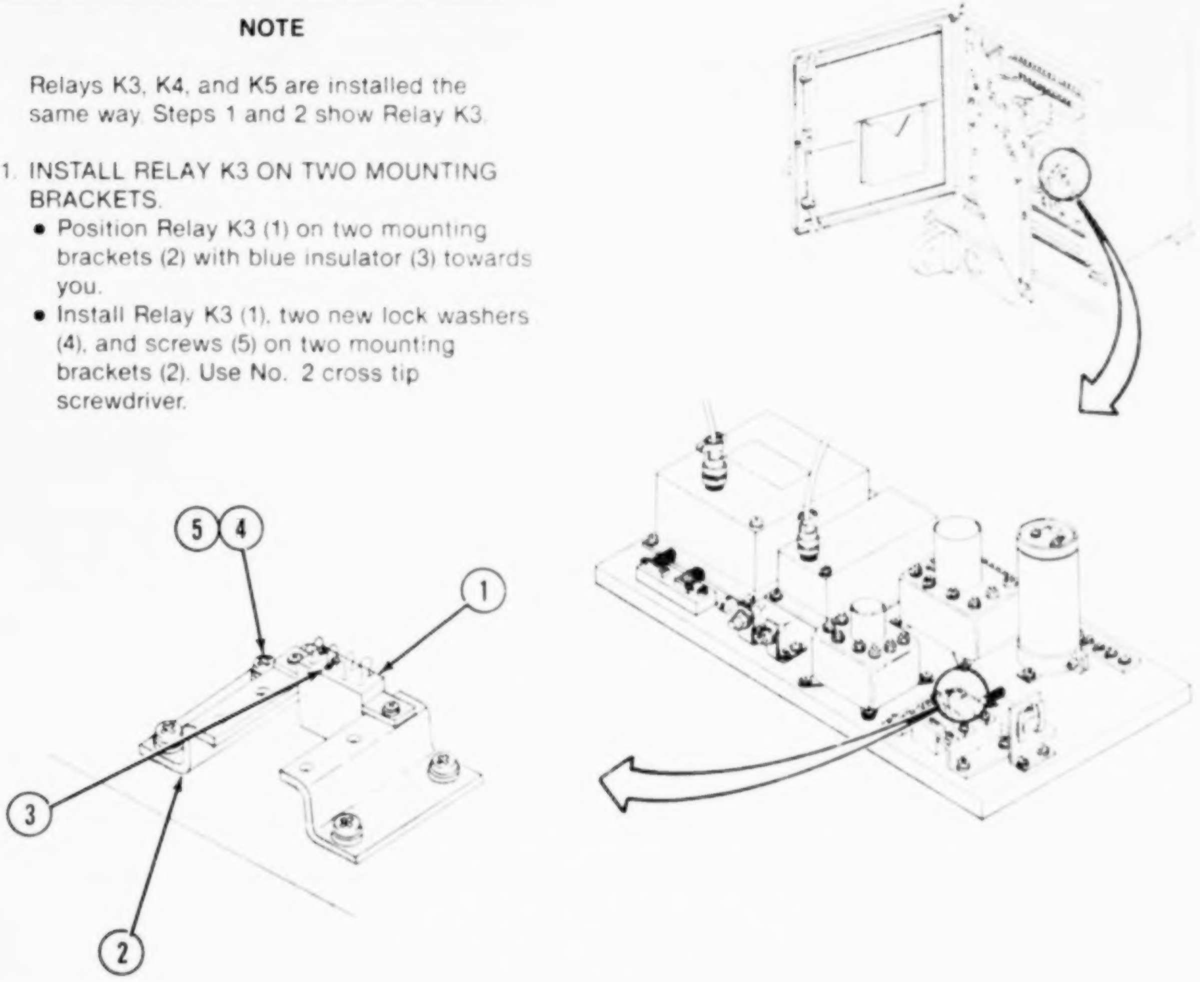


J. RELAYS K3, K4, AND K5 INSTALLATION

NOTE

Relays K3, K4, and K5 are installed the same way. Steps 1 and 2 show Relay K3.

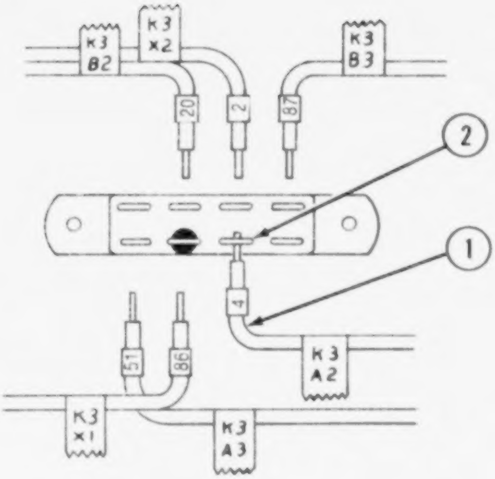
1. INSTALL RELAY K3 ON TWO MOUNTING BRACKETS.
   - Position Relay K3 (1) on two mounting brackets (2) with blue insulator (3) towards you.
   - Install Relay K3 (1), two new lock washers (4), and screws (5) on two mounting brackets (2). Use No. 2 cross tip screwdriver.



J. RELAYS K3, K4, AND K5 INSTALLATION — Continued

NOTE

Relay K3 leads are soldered the same way. Step 2 shows Lead No. 4.



2. SOLDER LEADS AT RELAY K3. (SEE TM 55-1500-323-25.)
   - Install heat shrink tubing on Lead No. 4 (1). (See TM 55-1500-323-25.)
   - Solder Lead No. 4 (1) at Relay K3 Terminal A2 (2). (See TM 55-1500-323-25 and Relays K3, K4, and K5 Schematic, Page 11-126.)
   - Shrink heat shrink tubing on Lead No. 4 (1). (See TM 55-1500-323-25.)
   - Repeat above soldering steps for other Relay K3 leads.
   - Remove tags from leads.
3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

K. RELAY MOUNTING BRACKETS REMOVAL

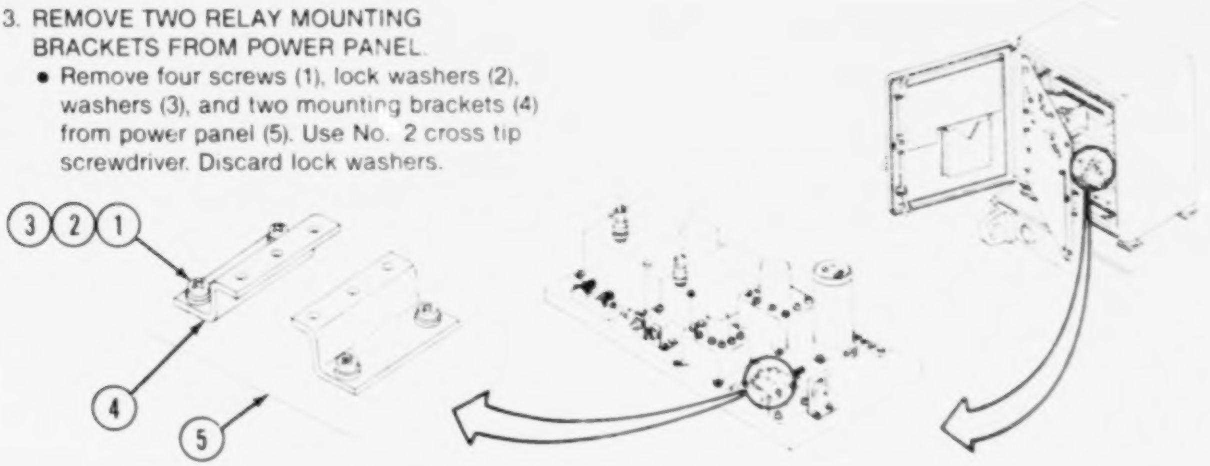
NOTE

PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

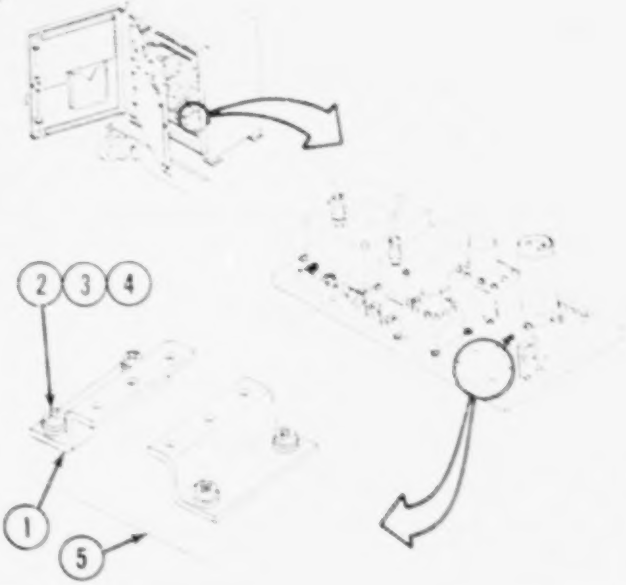
1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)
2. REMOVE RELAYS K3, K4, AND K5 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-126.)

3. REMOVE TWO RELAY MOUNTING BRACKETS FROM POWER PANEL.
   - Remove four screws (1), lock washers (2), washers (3), and two mounting brackets (4) from power panel (5). Use No. 2 cross tip screwdriver. Discard lock washers.



L. RELAY MOUNTING BRACKETS INSTALLATION

1. POSITION TWO RELAY MOUNTING BRACKETS ON POWER PANEL.
   - Install two mounting brackets (1), four washers (2), new lock washers (3), and screws (4) on power panel (5). Use No. 2 cross tip screwdriver. Do not tighten.
2. INSTALL RELAYS K3, K4, AND K5 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-127.)
3. TIGHTEN FOUR MOUNTING BRACKET SCREWS.
   - Tighten four screws (4). Use No. 2 cross tip screwdriver.
4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

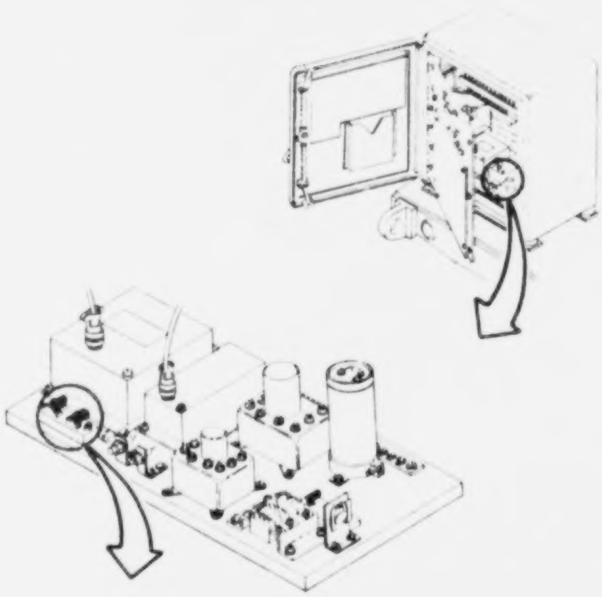
GO TO NEXT PAGE

11-9 POWER PANEL ASSEMBLY — Continued

M. RESISTORS R1, R2, R3, AND R4 REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)



1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

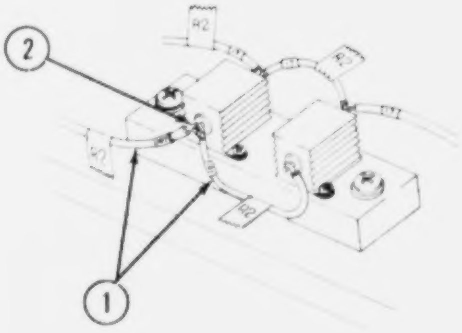
NOTE

Resistors R1, R2, R3, and R4 are removed the same way. Steps 2 and 3 show Resistor R2.

• • • •

Resistor R2 leads are unsoldered the same way. Step 2 shows Leads No. 107.

2. UNSOLDER FOUR LEADS AT RESISTOR R2.(SEE TM 55-1500-323-25.)
   - Tag and mark leads.
   - Unsolder Leads No. 107 (1) at front terminal (2).(See TM 55-1500-323-25.)
   - Repeat above unsoldering step for other two Resistor R2 leads.



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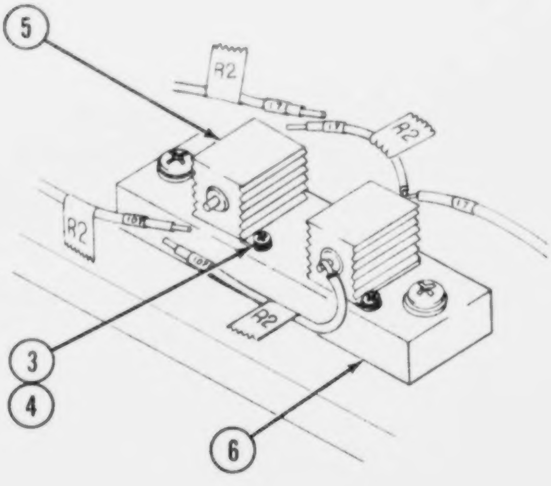
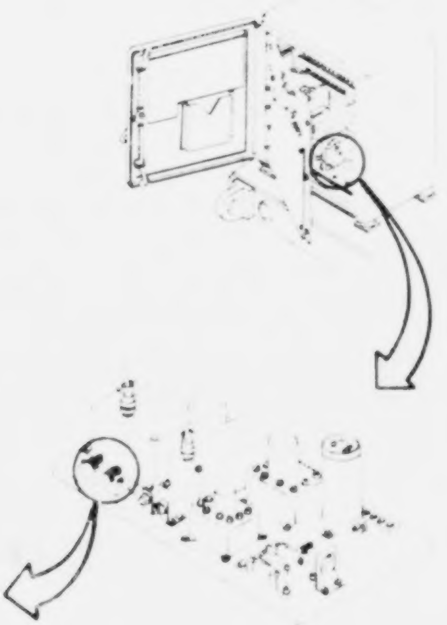
3. REMOVE RESISTOR R2 FROM MOUNTING BRACKET.
   - Remove two screws (3), lock washers (4), and Resistor R2 (5) from mounting bracket (6). Use No. 1 cross tip screwdriver. Discard lock washers.



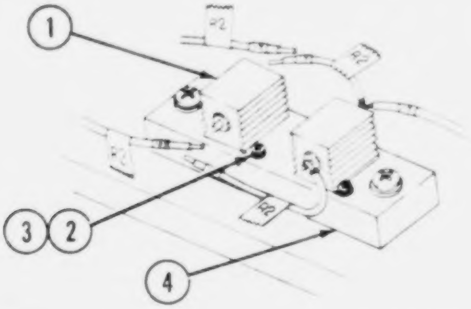
N. RESISTORS R1, R2, R3, AND R4 INSTALLATION



NOTE

Resistors R1, R2, R3, and R4 are installed the same way. Steps 1 and 2 show Resistor R2.

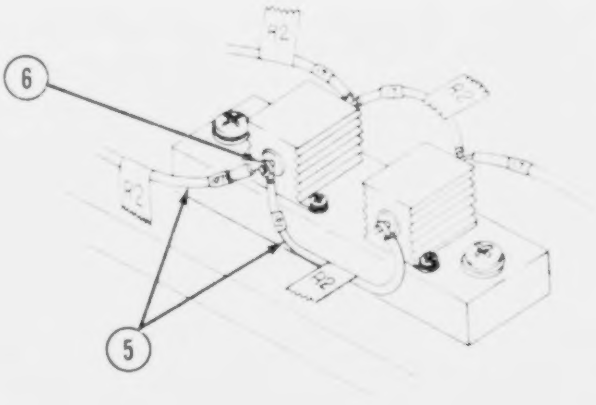
1. INSTALL RESISTOR R2 ON MOUNTING BRACKET.
   - Install Resistor R2 (1), two new lock washers (2), and screws (3) on mounting bracket (4). Use No. 1 cross tip screwdriver.



NOTE

Resistor R2 leads are soldered the same way. Step 2 shows Leads No. 107.

2. SOLDER FOUR LEADS AT RESISTOR R2. (SEE TM 55-1500-323-25.)
   - Install heat shrink tubing on Leads No. 107 (5). (See TM 55-1500-323-25.)
   - Solder Leads No. 107 (5) at front terminal (6). (See TM 55-1500-323-25.)
   - Shrink heat shrink tubing on Leads No. 107 (5). (See TM 55-1500-323-25.)
   - Repeat above soldering steps for other Resistor R2 leads.
   - Remove tags from leads.
3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)



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N. RESISTORS R1, R2, R3, AND R4 INSTALLATION — Continued

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM-9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

O. RESISTORS R1, R2, R3, AND R4 MOUNTING BRACKETS REMOVAL

NOTE

PRELIMINARY PROCEDURES:

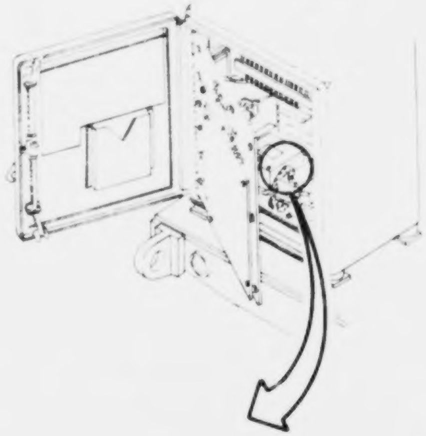
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

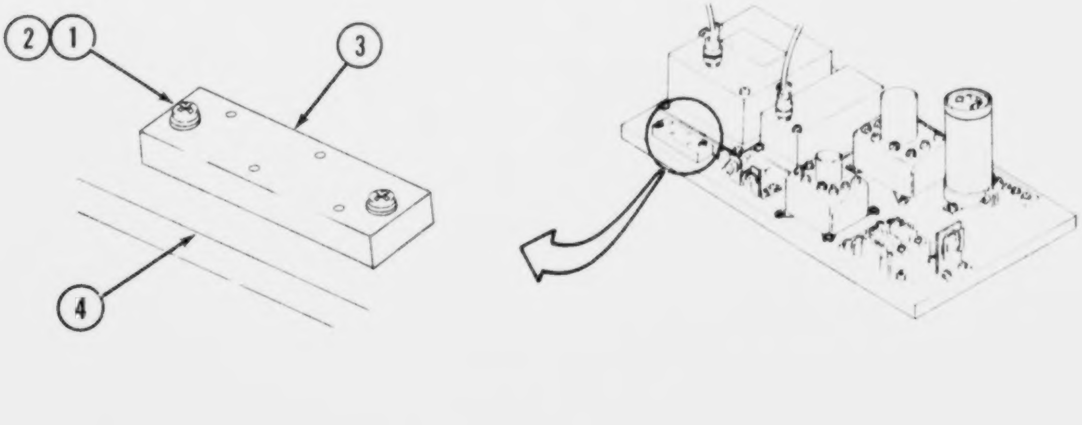
NOTE

If removing only R1 and R4 mounting bracket, go to Step 3.

1. REMOVE RESISTORS R2 AND R3 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-130.)

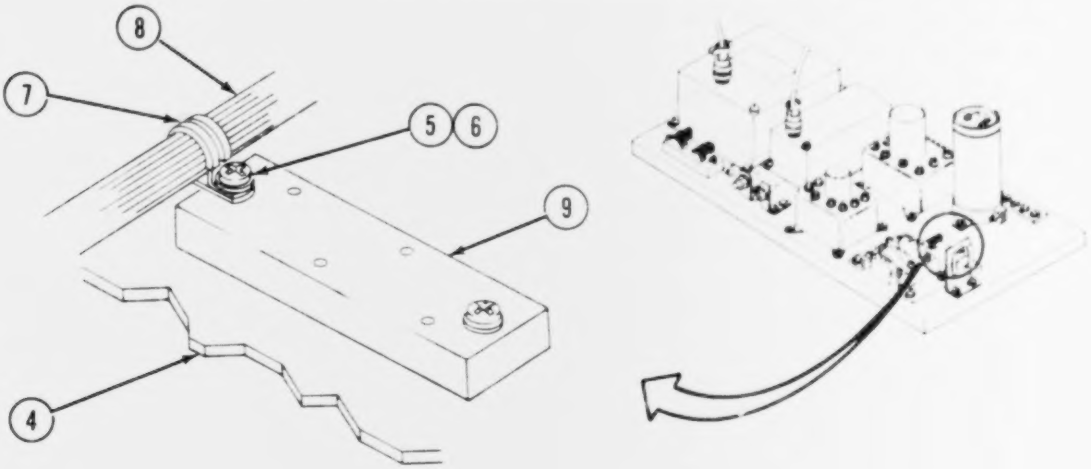
2. REMOVE RESISTORS R2 AND R3 MOUNTING BRACKET FROM POWER PANEL.
   - Remove two screws (1), lock washers (2), and mounting bracket (3) from power panel (4). Use No. 2 cross tip screwdriver. Discard lock washers.





3. REMOVE RESISTORS R1 AND R4 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-130.)

4. REMOVE RESISTORS R1 AND R4 MOUNTING BRACKET FROM POWER PANEL.
   - Remove two screws (5), lock washers (6), clamp (7) with wire bundle (8), and mounting bracket (9) from power panel (4). Use No. 2 cross tip screwdriver. Discard lock washers.



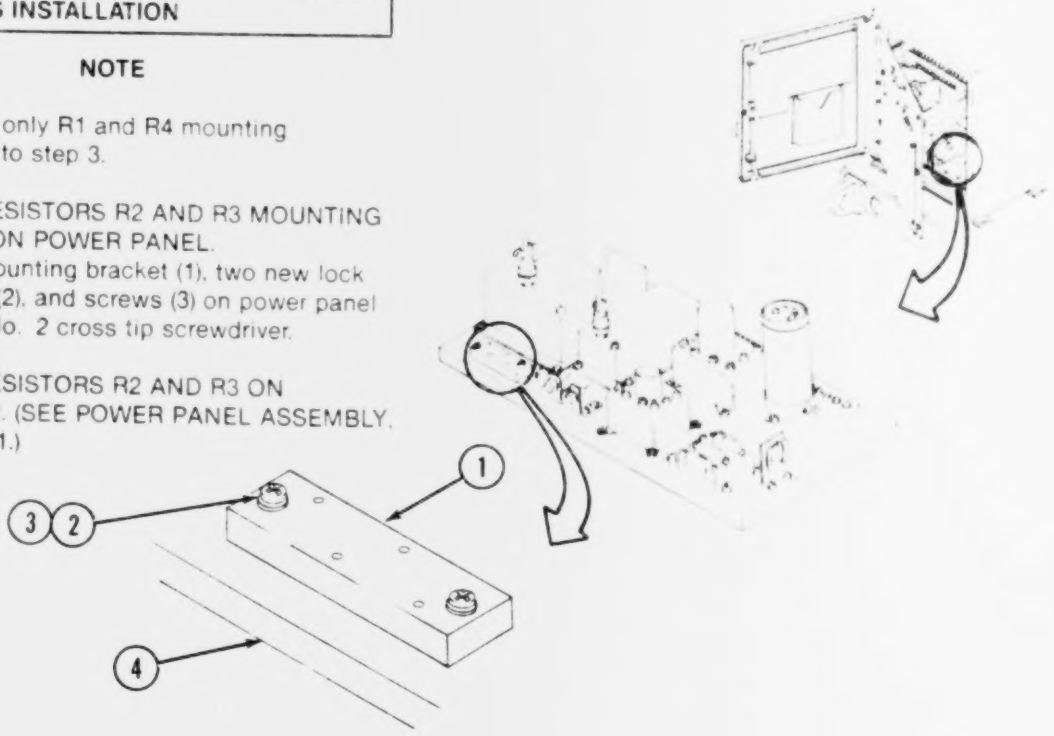
P. RESISTORS R1, R2, R3, AND R4 MOUNTING BRACKETS INSTALLATION

NOTE

If installing only R1 and R4 mounting bracket, go to step 3.

1. INSTALL RESISTORS R2 AND R3 MOUNTING BRACKET ON POWER PANEL.
   - Install mounting bracket (1), two new lock washers (2), and screws (3) on power panel (4). Use No. 2 cross tip screwdriver.

2. INSTALL RESISTORS R2 AND R3 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-131.)



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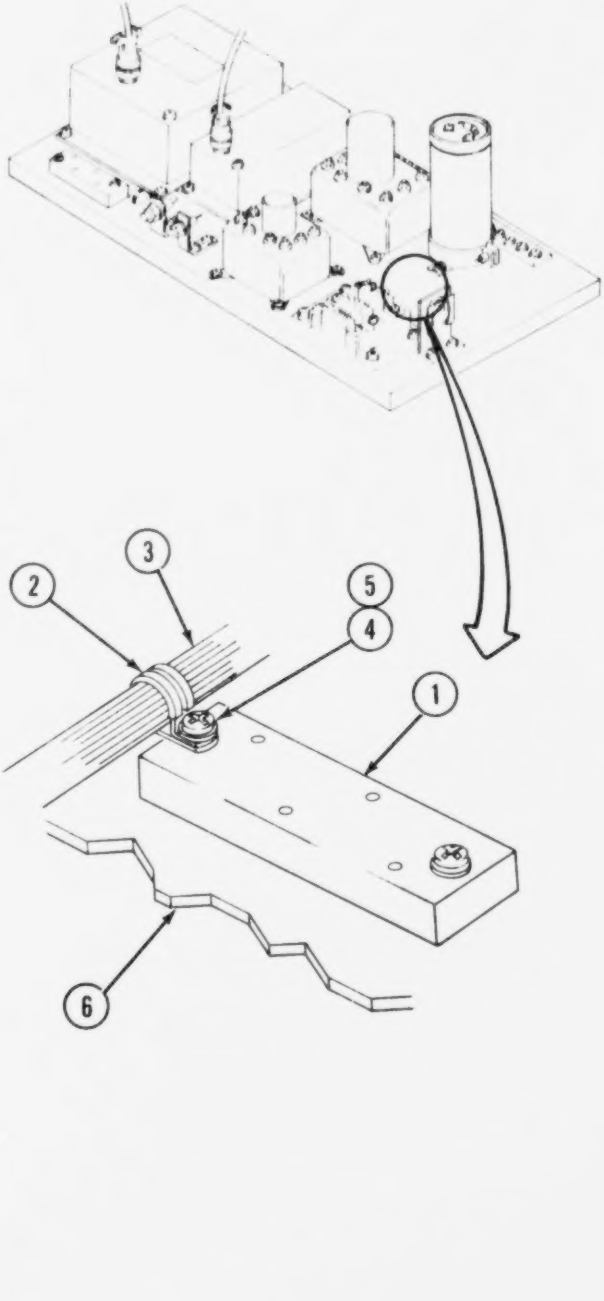
P. RESISTORS R1, R2, R3, AND R4 MOUNTING BRACKETS INSTALLATION — Continued

3. INSTALL RESISTORS R1 AND R4 MOUNTING BRACKET ON POWER PANEL.
   - Install mounting bracket (1), clamp (2) with wire bundle (3), two new lock washers (4), and screws (5) on power panel (6). Use No. 2 cross tip screwdriver.

4. INSTALL RESISTORS R1 AND R4 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-131.)

5. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)

Close Right Battery Box Cover. (See TM 9-1095-205-10.)

Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)

Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)

Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

Q. RESISTOR R5 REMOVAL

NOTE

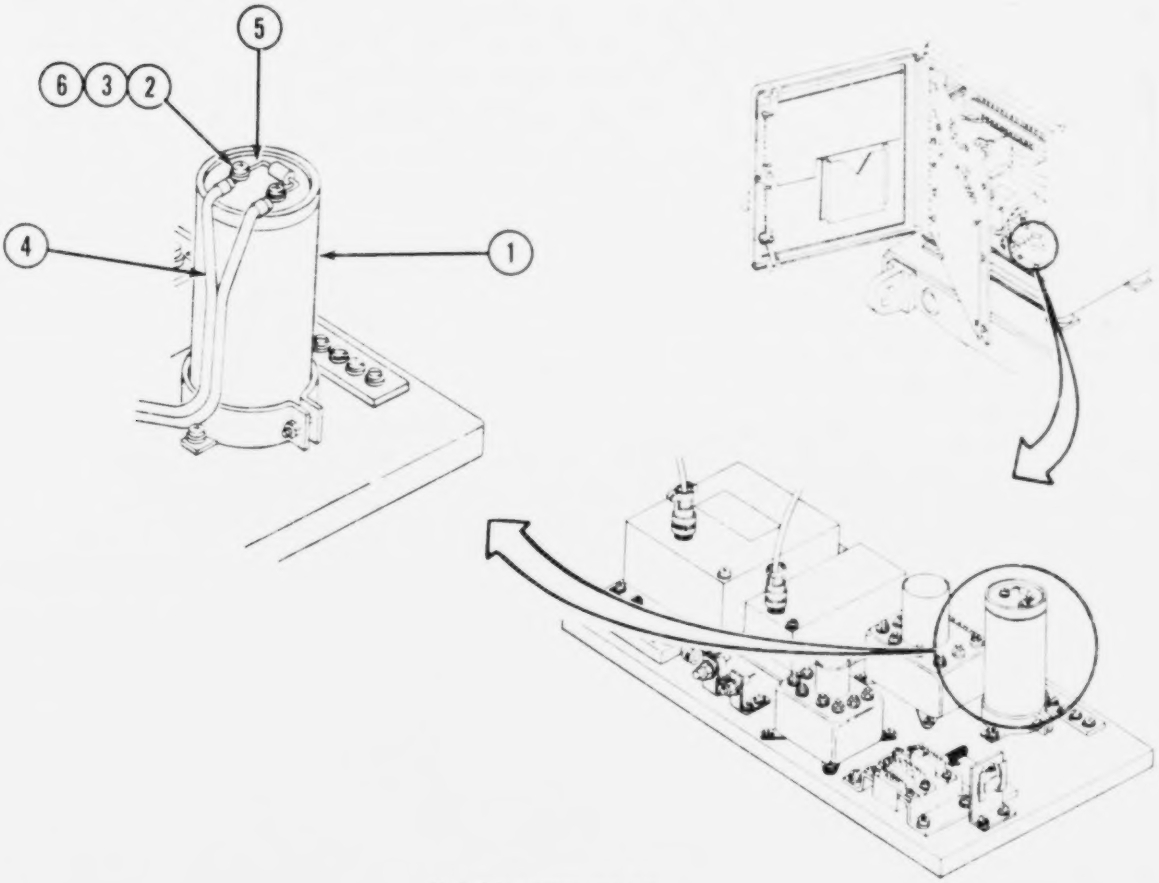
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

WARNING

Capacitor can discharge and injure you. Discharge capacitor before working on circuit.

2. REMOVE RESISTOR R5 FROM CAPACITOR C1.
   - Discharge Capacitor C1 (1). Use 3/8 inch flat tip screwdriver.
   - Tag and mark leads.
   - Remove screw (2), lock washer (3), Lead No. 14 (4), and Resistor R5 positive lead (5) from Capacitor C1 positive terminal (6). Use No. 2 cross tip screwdriver. Discard lock washer.



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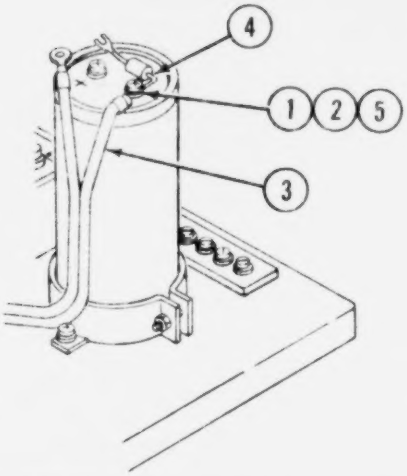
Q. RESISTOR R5 REMOVAL — Continued

- Remove screw (1), lock washer (2), Lead No. 2 (3), and Resistor R5 negative lead (4) from Capacitor C1 negative terminal (5). Use No. 2 cross tip screwdriver. Discard lock washer.



R. RESISTOR R5 INSTALLATION

NOTE

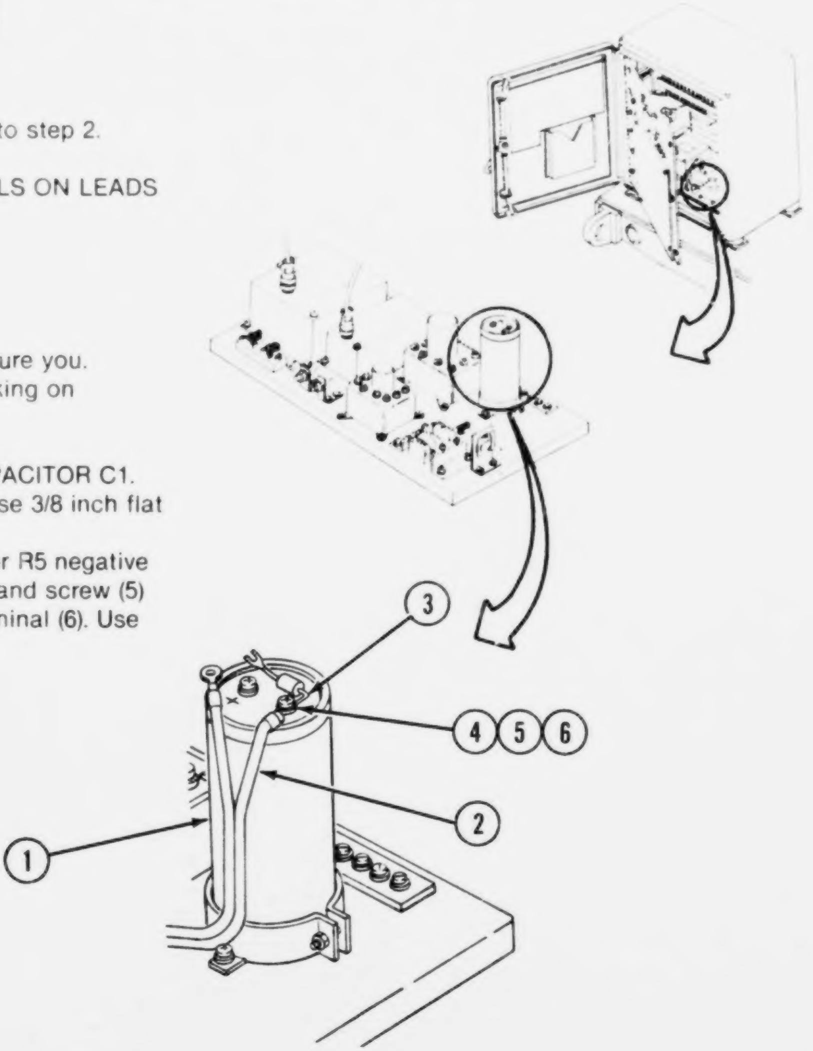
If installing old Resistor R5, go to step 2.

1. INSTALL CRIMP LUG TERMINALS ON LEADS OF NEW RESISTOR R5. (SEE TM 55-1500-323-25.)

WARNING

Capacitor can discharge and injure you. Discharge capacitor before working on circuit.

2. INSTALL RESISTOR R5 ON CAPACITOR C1.
   - Discharge Capacitor C1 (1). Use 3/8 inch flat tip screwdriver.
   - Install Lead No. 2 (2), Resistor R5 negative lead (3), new lock washer (4), and screw (5) on Capacitor C1 negative terminal (6). Use No. 2 cross tip screwdriver.

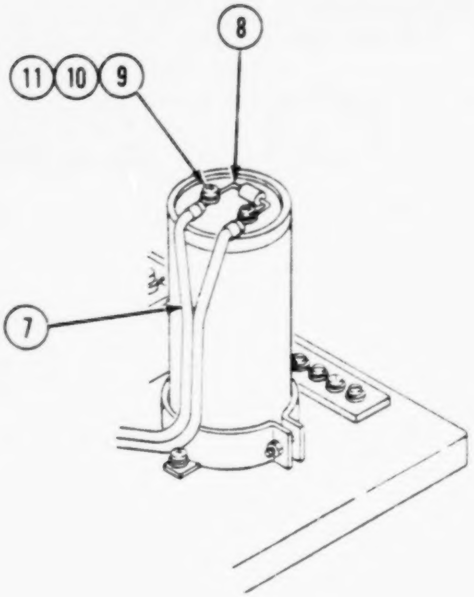


- Install Lead No. 14 (7), Resistor R5 positive lead (8), new lock washer (9), and screw (10) on Capacitor C1 positive terminal (11). Use No. 2 cross tip screwdriver.
- Remove tags from leads.

3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)

NOTE

FOLLOW-ON MAINTENANCE:
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)



S. CAPACITOR C1 REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

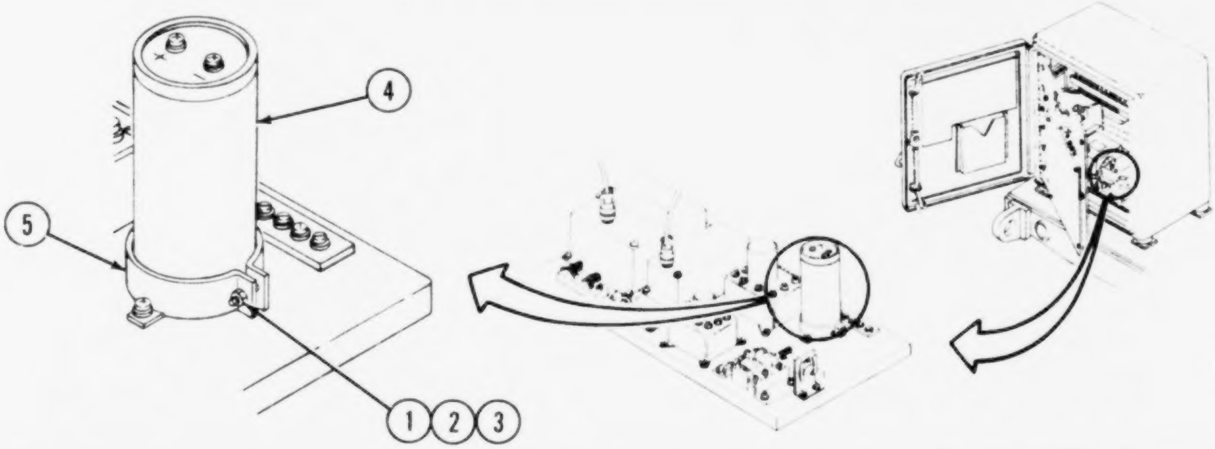
1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

2. REMOVE RESISTOR R5 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-135.)

GO TO NEXT PAGE

S. CAPACITOR C1 REMOVAL — Continued

3. REMOVE CAPACITOR C1 FROM CAPACITOR MOUNTING BRACKET.
   - Remove nut (1), lock washer (2), screw (3), and Capacitor C1 (4) from mounting bracket (5). Use 5/16 inch open end wrench and No. 2 offset cross tip screwdriver. Discard lock washer.

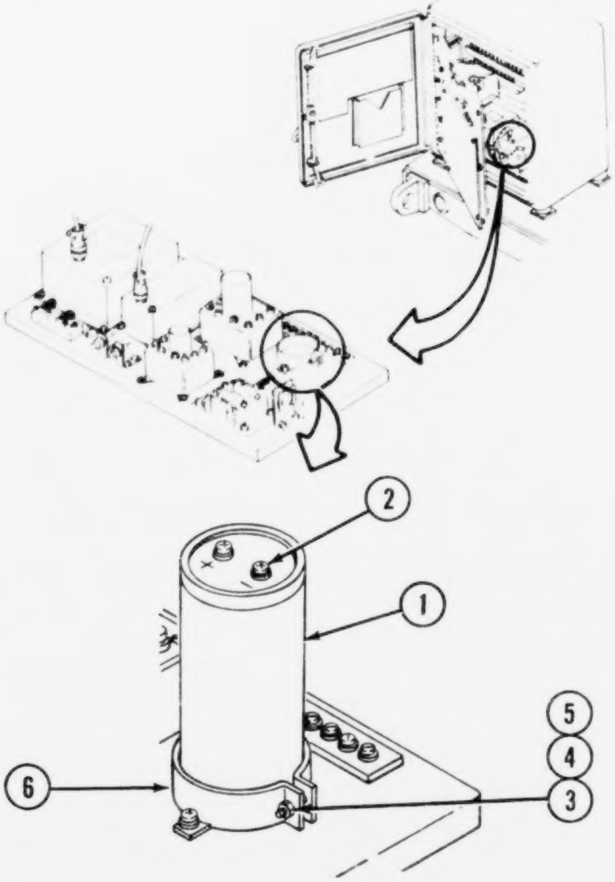


T. CAPACITOR C1 INSTALLATION

WARNING

Capacitor can discharge and injure you. Discharge capacitor before working on circuit.

1. INSTALL CAPACITOR C1 ON CAPACITOR MOUNTING BRACKET.
   - Discharge Capacitor C1 (1). Use 3/8 inch flat tip screwdriver.
   - Position Capacitor C1 (1) with negative terminal (2) to your right.
   - Install Capacitor C1 (1), screw (3), new lock washer (4), and nut (5) on mounting bracket (6). Use 5/16 inch open end wrench and No. 2 cross tip screwdriver.
2. INSTALL RESISTOR R5 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-136.)
3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

U. CAPACITOR MOUNTING BRACKET REMOVAL

NOTE

PRELIMINARY PROCEDURES:

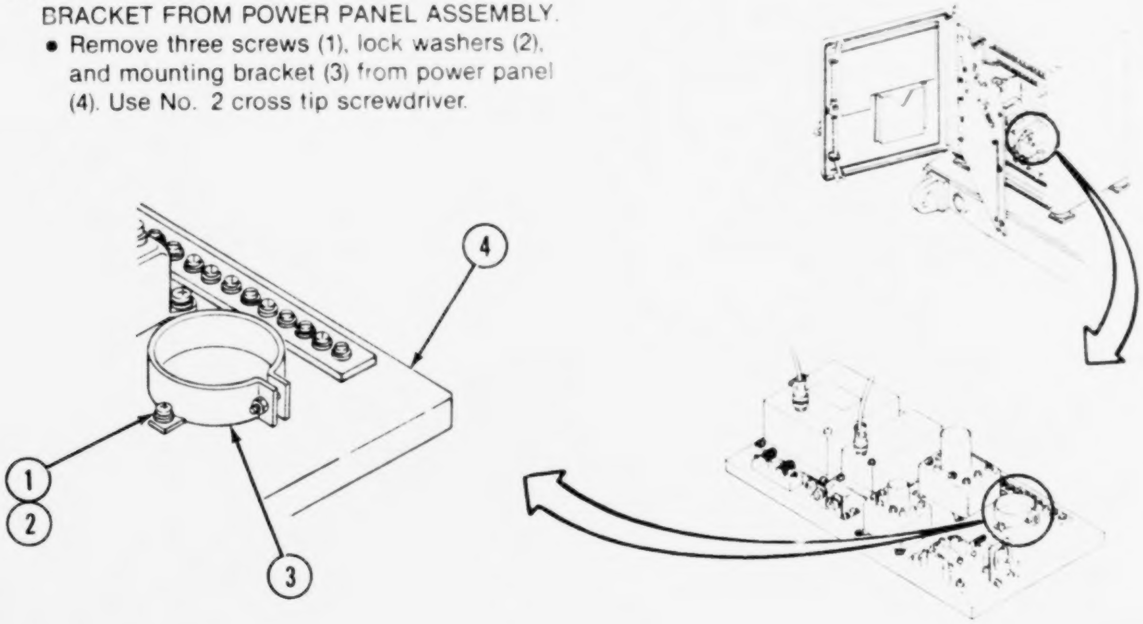
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

2. REMOVE RESISTOR R5 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-137.)

3. REMOVE CAPACITOR C1 FROM CAPACITOR MOUNTING BRACKET. (SEE POWER PANEL ASSEMBLY, PAGE 11-138.)

4. REMOVE CAPACITOR C1 MOUNTING BRACKET FROM POWER PANEL ASSEMBLY.
   - Remove three screws (1), lock washers (2), and mounting bracket (3) from power panel (4). Use No. 2 cross tip screwdriver.



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11-9 POWER PANEL ASSEMBLY — Continued

V. CAPACITOR MOUNTING BRACKET INSTALLATION

1. INSTALL CAPACITOR C1 MOUNTING BRACKET ON POWER PANEL ASSEMBLY.
   - Position mounting bracket (1) on power panel (2) with clamp (3) to your right.
   - Install mounting bracket (1), three new lock washers (4), and screws (5) on power panel (2). Use No. 2 cross tip screwdriver.

2. INSTALL CAPACITOR C1 ON CAPACITOR MOUNTING BRACKET. (SEE POWER PANEL ASSEMBLY, PAGE 11-138.)

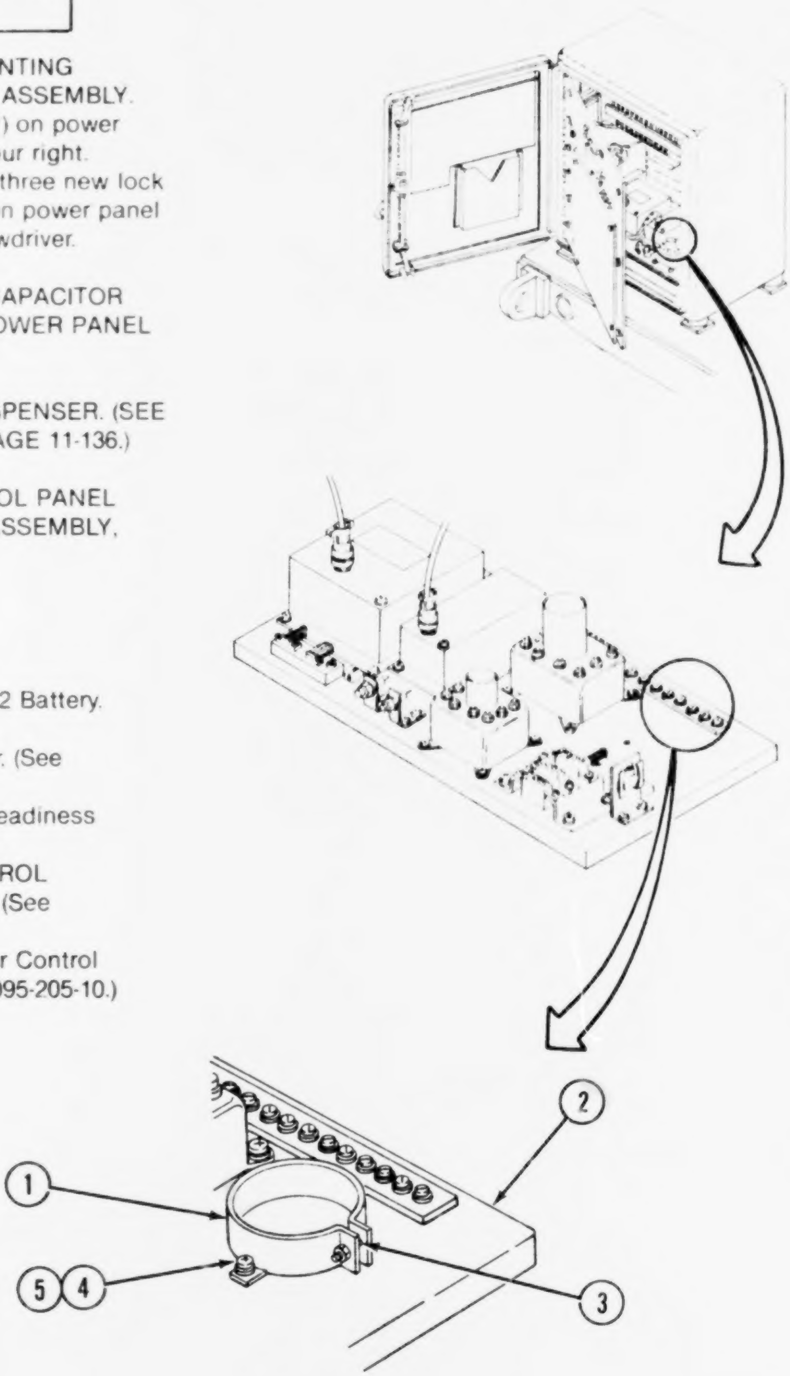
3. INSTALL RESISTOR R5 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-136.)

4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)



W. DIODE D2 REMOVAL

NOTE

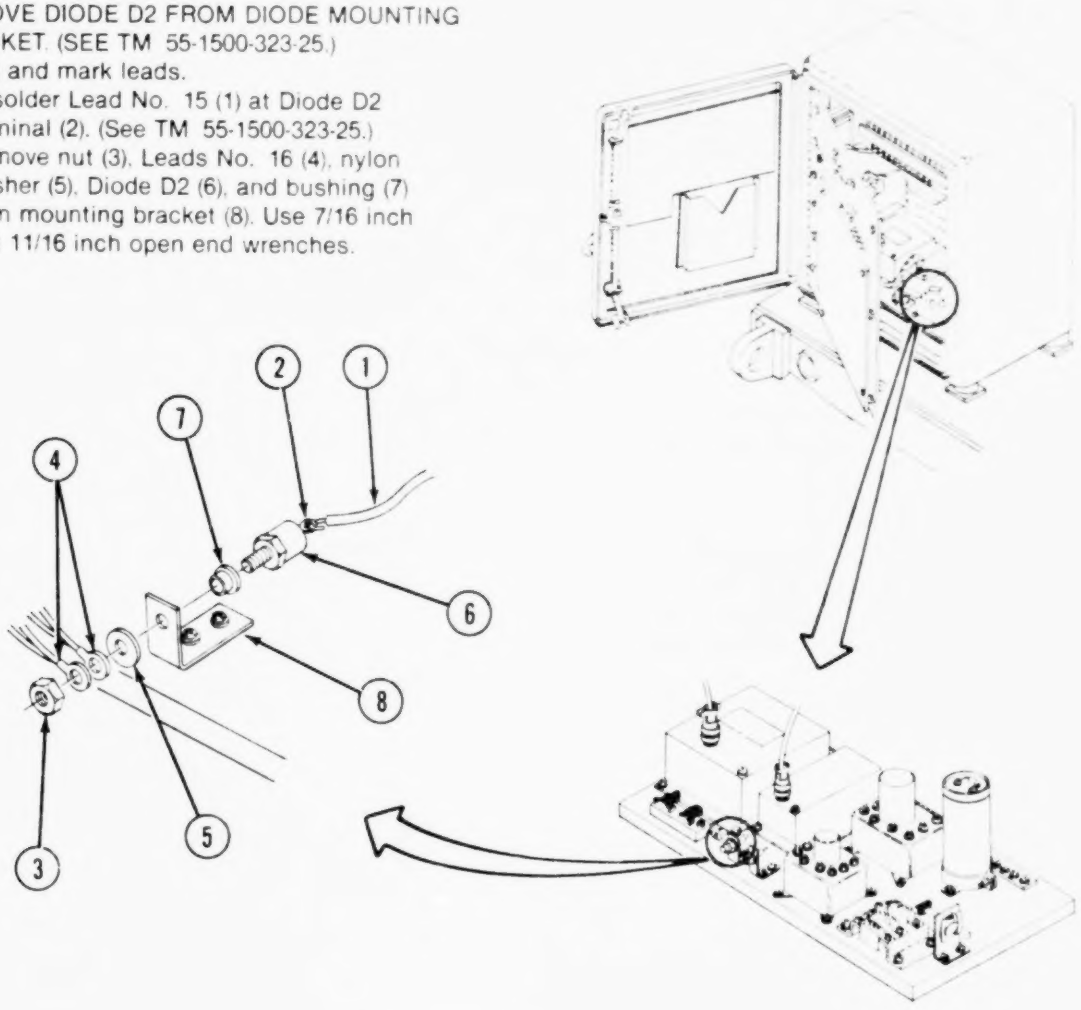
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

CAUTION

Excessive heat will destroy diode. Use heat sink when applying heat to diode.

2. REMOVE DIODE D2 FROM DIODE MOUNTING BRACKET. (SEE TM 55-1500-323-25.)
   - Tag and mark leads.
   - Unsolder Lead No. 15 (1) at Diode D2 terminal (2). (See TM 55-1500-323-25.)
   - Remove nut (3), Leads No. 16 (4), nylon washer (5), Diode D2 (6), and bushing (7) from mounting bracket (8). Use 7/16 inch and 11/16 inch open end wrenches.



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11-9 POWER PANEL ASSEMBLY — Continued

X. DIODE D2 INSTALLATION

CAUTION

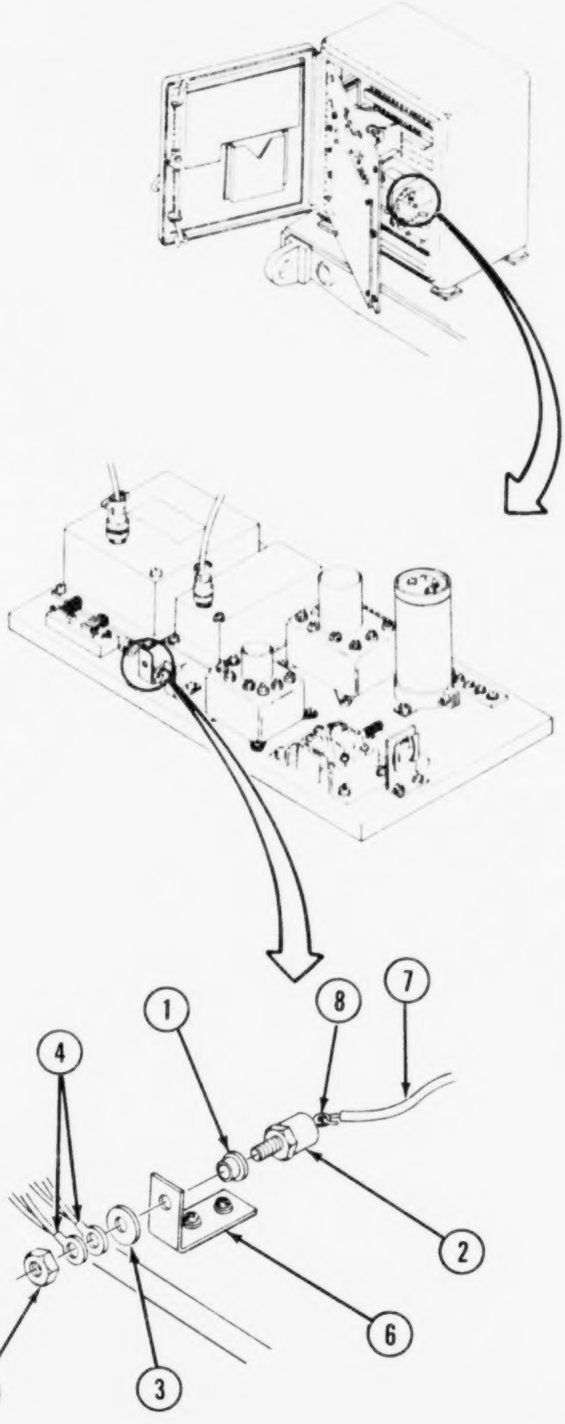
Excessive heat will destroy diode. Use heat sink when applying heat to diode.

1. INSTALL DIODE D2 ON DIODE MOUNTING BRACKET. (SEE TM 55-1500-323-25.)
   - Install bushing (1), Diode D2 (2), nylon washer (3), Leads No. 16 (4), and nut (5) on mounting bracket (6). Use 7/16 inch and 11/16 inch open end wrenches.
   - Install heat shrink tubing on Lead No. 15 (7). (See TM 55-1500-323-25.)
   - Solder Lead No. 15 (7) at Diode D2 terminal (8). (See TM 55-1500-323-25.)
   - Shrink heat shrink tubing on Lead No. 15 (7). (See TM 55-1500-323-25.)
   - Remove tags from leads.
2. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)



Y. DIODE D7 REMOVAL

NOTE

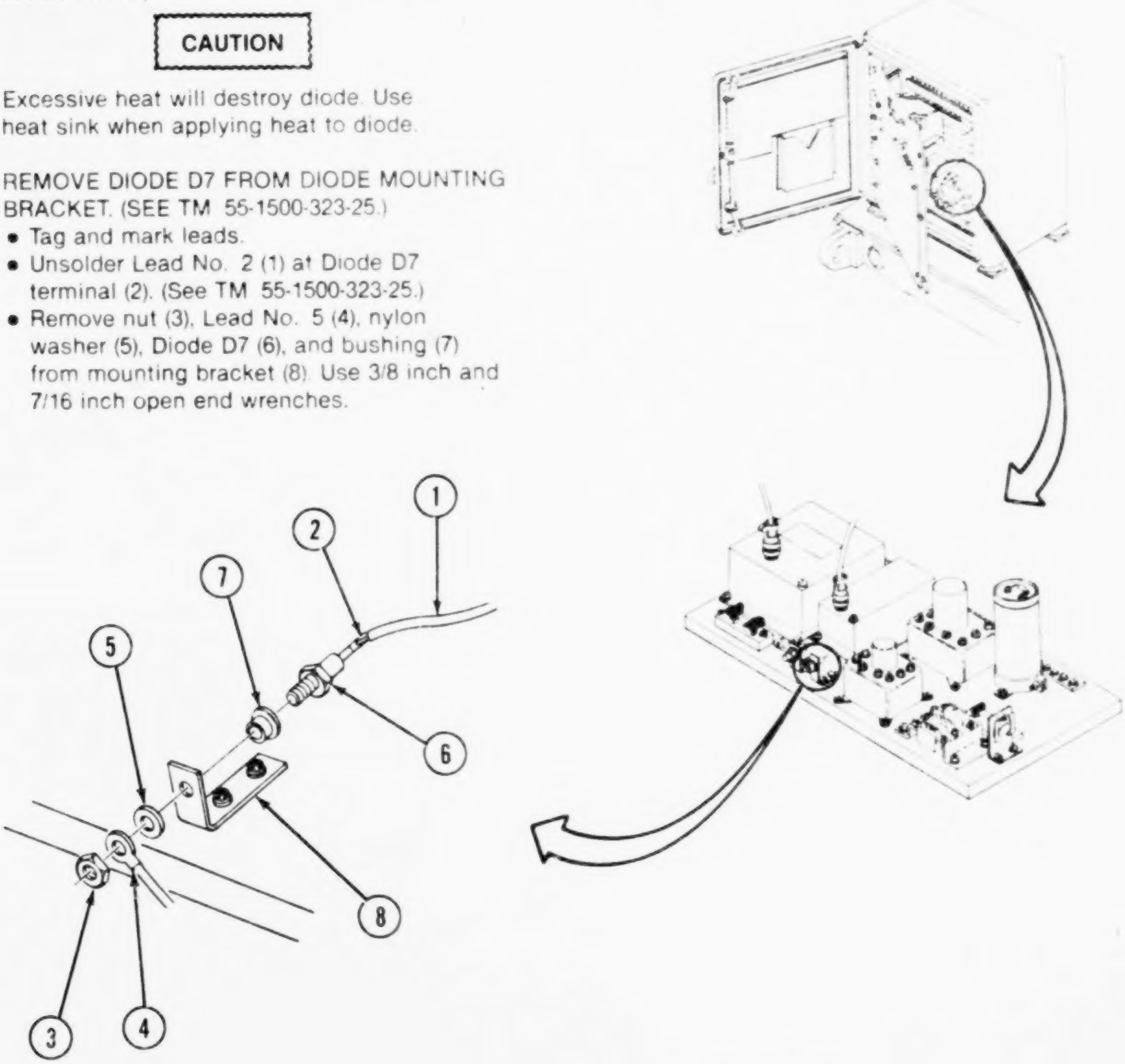
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

CAUTION

Excessive heat will destroy diode. Use heat sink when applying heat to diode.

2. REMOVE DIODE D7 FROM DIODE MOUNTING BRACKET. (SEE TM 55-1500-323-25.)
   - Tag and mark leads.
   - Unsolder Lead No. 2 (1) at Diode D7 terminal (2). (See TM 55-1500-323-25.)
   - Remove nut (3), Lead No. 5 (4), nylon washer (5), Diode D7 (6), and bushing (7) from mounting bracket (8). Use 3/8 inch and 7/16 inch open end wrenches.



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11-9 POWER PANEL ASSEMBLY — Continued

Z. DIODE D7 INSTALLATION

CAUTION

Excessive heat will destroy diode. Use heat sink when applying heat to diode.

1. INSTALL DIODE D7 ON DIODE MOUNTING BRACKET. (SEE TM 55-1500-323-25.)
   - Install bushing (1), Diode D7 (2), nylon washer (3), Lead No. 5 (4), and nut (5) on diode mounting bracket (6). Use 3/8 inch and 7/16 inch open end wrenches.
   - Install heat shrink tubing on Lead No. 2 (7). (See TM 55-1500-323-25.)
   - Solder Lead No. 2 (7) at Diode D7 terminal (8). (See TM 55-1500-323-25.)
   - Shrink heat shrink tubing on Lead No. 2 (7). (See TM 55-1500-323-25.)
   - Remove tags from leads.
2. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)

NOTE

FOLLOW-ON MAINTENANCE:

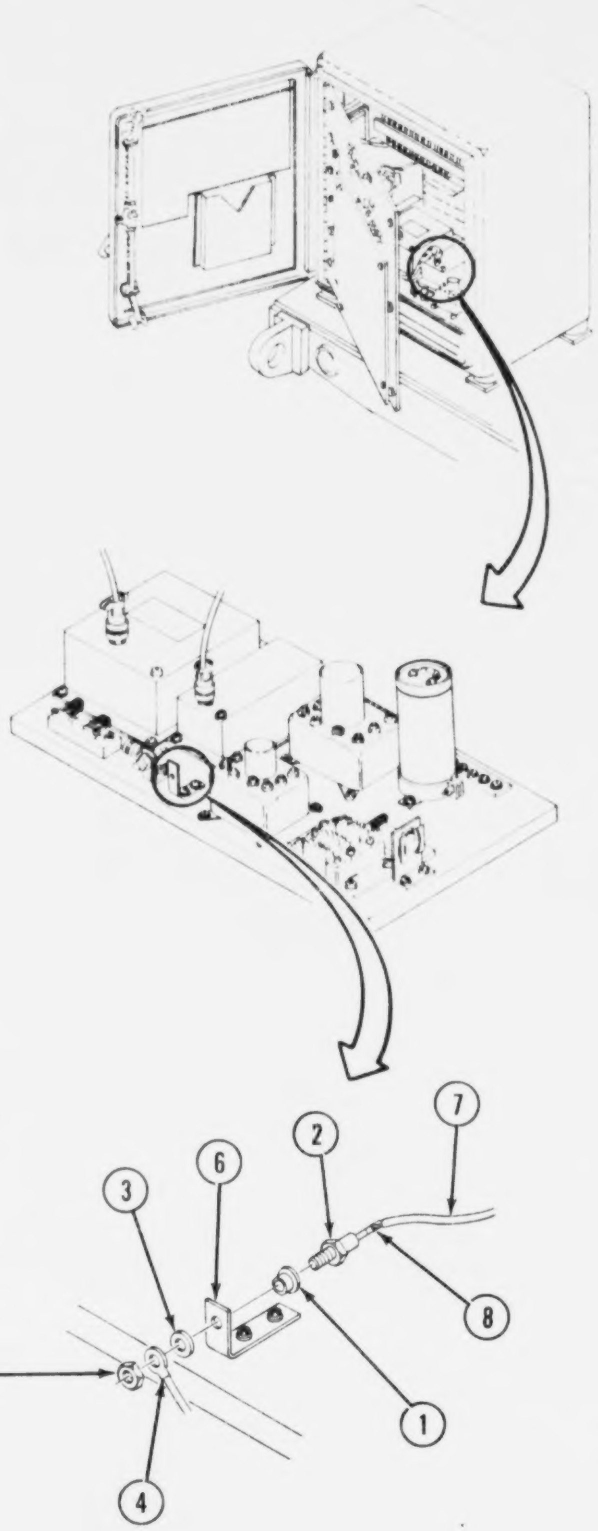
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)

Close Right Battery Box Cover. (See TM 9-1095-205-10.)

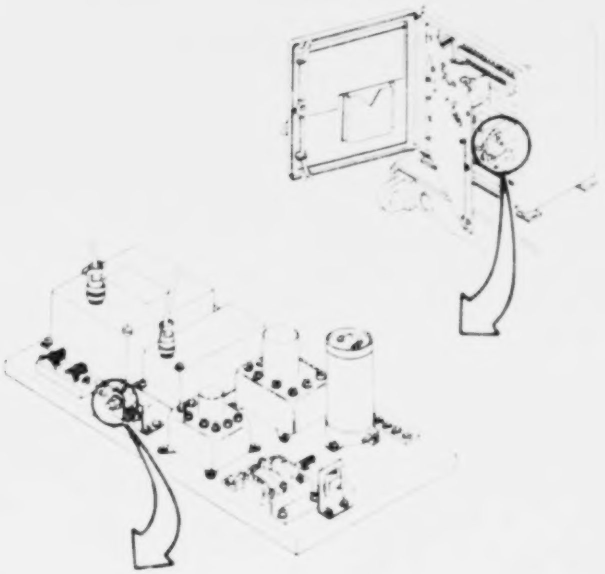
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)

Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)

Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)



AA. DIODE D2 MOUNTING BRACKET REMOVAL

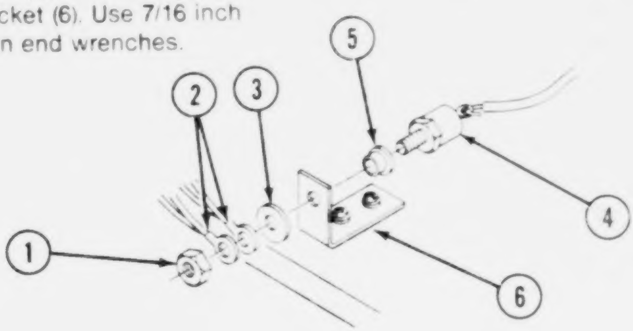


NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

2. REMOVE FOUR LEADS NO. 16 AND DIODE D2 FROM DIODE D2 MOUNTING BRACKET.
   - Tag and mark leads.
   - Remove nut (1), Leads No. 16 (2), nylon washer (3), Diode D2 (4), and bushing (5) from mounting bracket (6). Use 7/16 inch and 11/16 inch open end wrenches.



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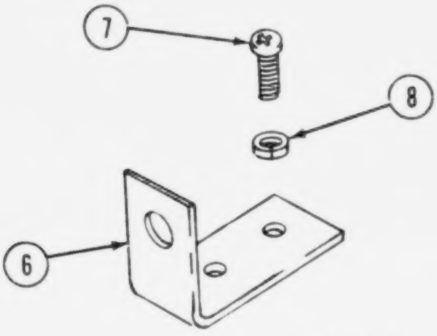
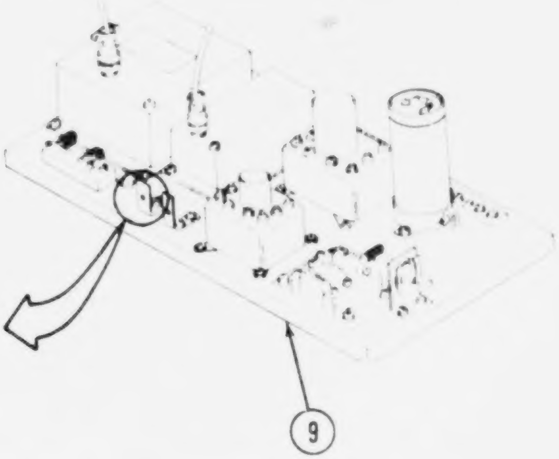
3. REMOVE DIODE D2 MOUNTING BRACKET FROM POWER PANEL ASSEMBLY.
   - Remove two screws (7), lock washers (8), and mounting bracket (6) from power panel (9). Use No. 2 cross tip screwdriver. Discard lock washers.





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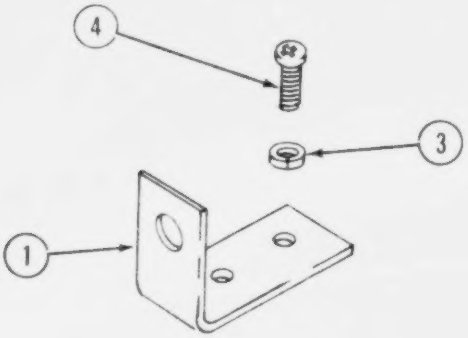
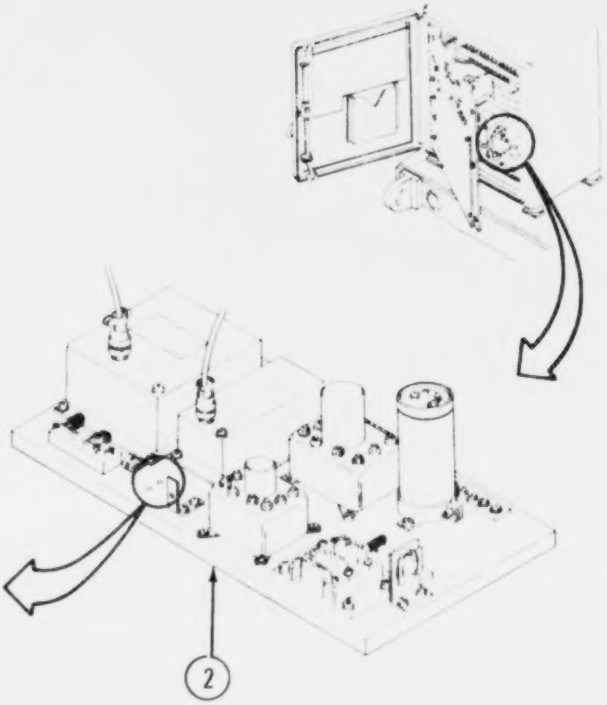
11-9 POWER PANEL ASSEMBLY — Continued

AB. DIODE D2 MOUNTING BRACKET INSTALLATION

1. INSTALL DIODE D2 MOUNTING BRACKET ON POWER PANEL ASSEMBLY.
   - Position mounting bracket (1) on power panel (2) with vertical leg of mounting bracket toward you.
   - Install mounting bracket (1), two new lock washers (3), and screws (4) on power panel (2). Use No. 2 cross tip screwdriver.





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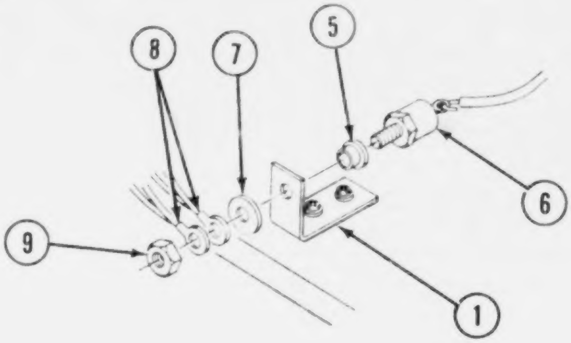
2. INSTALL DIODE D2 AND FOUR LEADS NO. 16 ON DIODE D2 MOUNTING BRACKET.
   - Install bushing (5), Diode D2 (6), nylon washer (7), Leads No. 16 (8), and nut (9) on mounting bracket (1). Use 7/16 inch and 11/16 inch open end wrenches.
   - Remove tags from leads.
3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)



NOTE

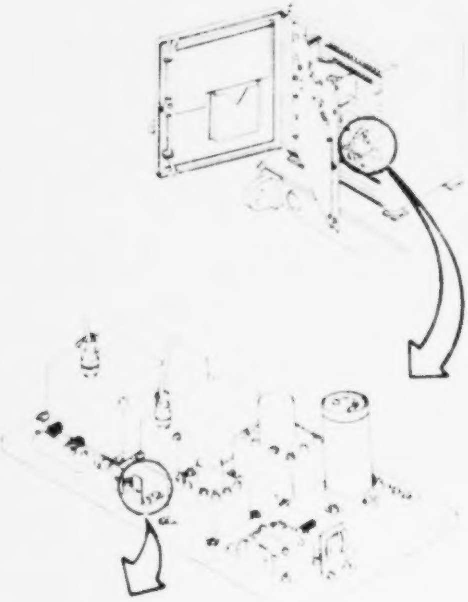
FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

AC. DIODE D7 MOUNTING BRACKET REMOVAL

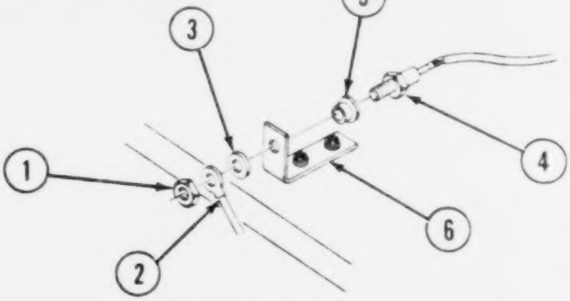
NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)



1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

2. REMOVE LEAD NO. 5 AND DIODE D7 FROM DIODE D7 MOUNTING BRACKET.
   - Remove nut (1), Lead No. 5 (2), nylon washer (3), Diode D7 (4), and bushing (5) from mounting bracket (6). Use 3/8 inch and 7/16 inch open end wrenches.



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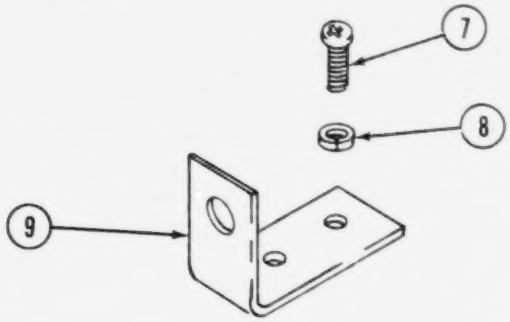
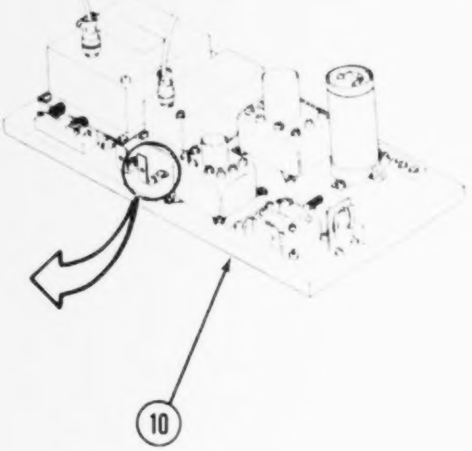
3. REMOVE DIODE D7 MOUNTING BRACKET FROM POWER PANEL ASSEMBLY.
   - Remove two screws (7), lock washers (8), and mounting bracket (9) from power panel (10). Use No. 2 cross tip screwdriver. Discard lock washers.





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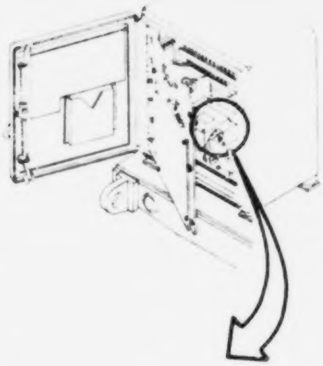
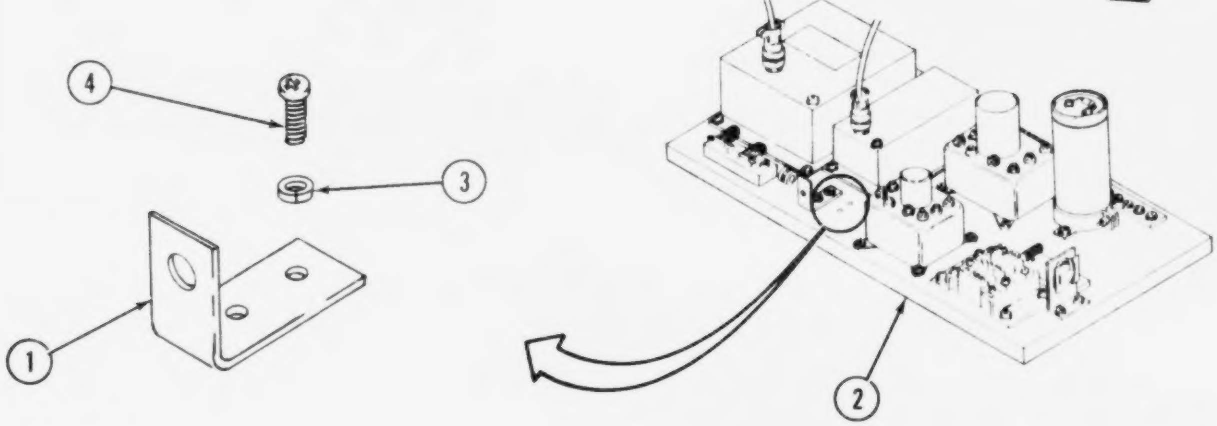
11-9 POWER PANEL ASSEMBLY — Continued

AD. DIODE D7 MOUNTING BRACKET INSTALLATION

1. INSTALL DIODE D7 MOUNTING BRACKET ON POWER PANEL ASSEMBLY.
   - Position mounting bracket (1) on power panel (2) with vertical leg of mounting bracket towards you.
   - Install mounting bracket (1), two new lock washers (3), and screws (4) on power panel (2). Use No. 2 cross tip screwdriver.





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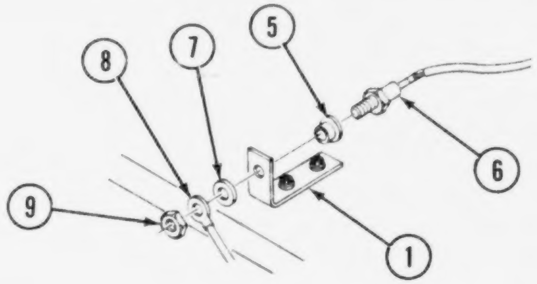
2. INSTALL DIODE D7 AND LEAD NO. 5 ON DIODE D7 MOUNTING BRACKET.
   - Install bushing (5), Diode D7 (6), nylon washer (7), Lead No. 5 (8), and nut (9) on mounting bracket (1). Use 3/8 inch and 7/16 inch open end wrenches.

3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)

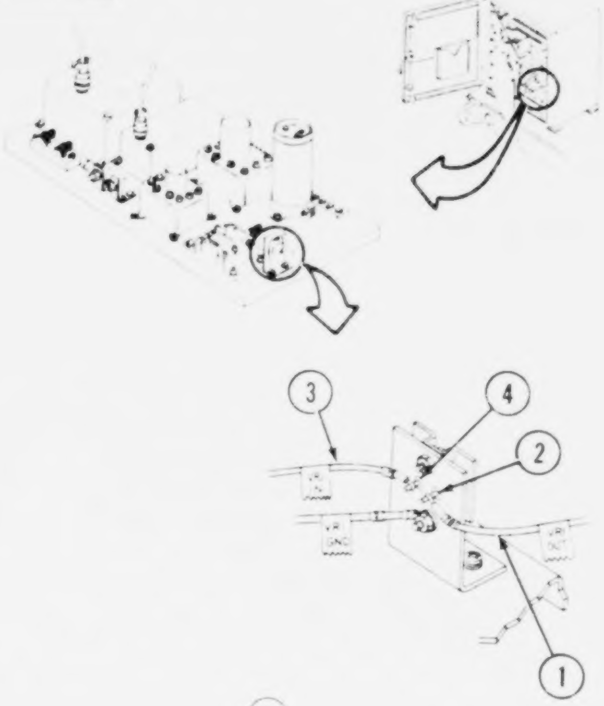


NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

AE. VOLTAGE REGULATOR VR1 AND HEAT SINK REMOVAL



NOTE

PRELIMINARY PROCEDURES:

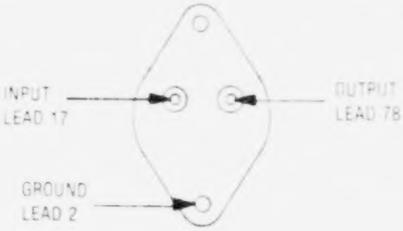
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

CAUTION

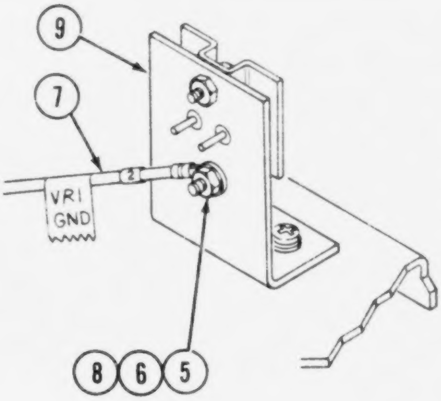
Excessive heat will destroy voltage regulator. Use heat sink when applying heat to voltage regulator.

2. REMOVE LEADS FROM VOLTAGE REGULATOR VR1. (SEE TM 55-1500-323-25.)
   - Identify terminal designations. (See following Voltage Regulator Terminal Diagram.)
   - Tag and mark leads. (See following Voltage Regulator Terminal Diagram.)
   - Unsolder Lead No. 78 (1) at VR1 output terminal (2). (See TM 55-1500-323-25.)
   - Unsolder Lead No. 17 (3) at VR1 input terminal (4). (See TM 55-1500-323-25.)



Voltage Regulator Terminal Diagram

- Remove bottom self-locking nut (5), lock washer (6), Lead No. 2 (7), and screw (8) from bracket (9). Use No. 2 offset cross tip screwdriver and 5/16 inch open end wrench. Discard lock washer and self-locking nut.



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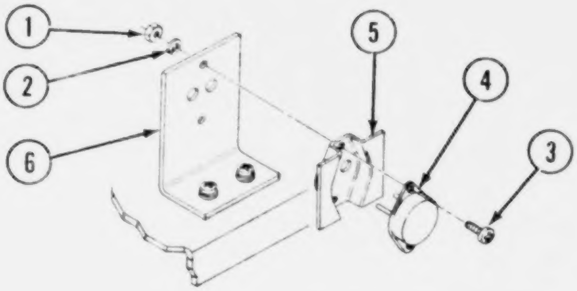
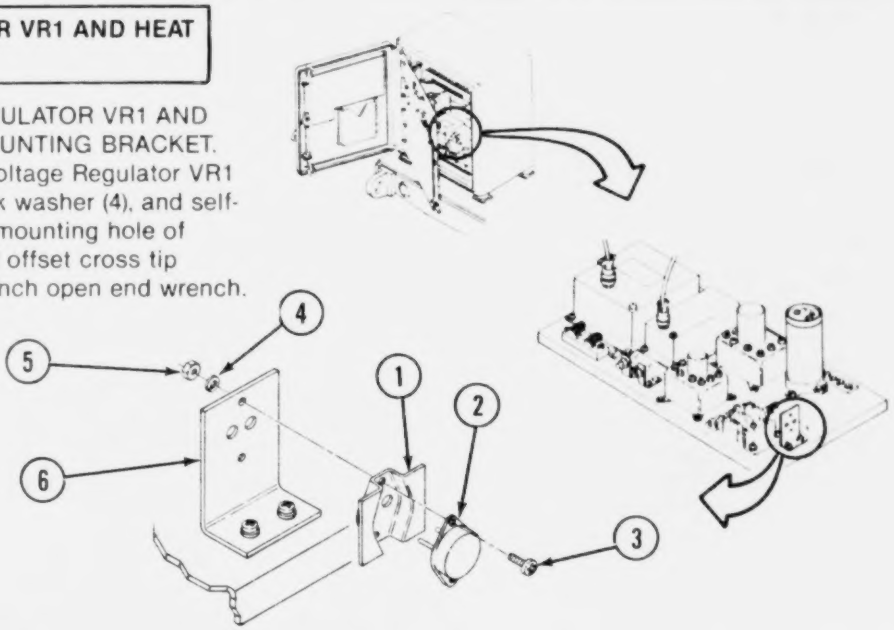
AE. VOLTAGE REGULATOR VR1 AND HEAT SINK REMOVAL — Continued

3. REMOVE VOLTAGE REGULATOR VR1 AND HEAT SINK FROM VR1 MOUNTING BRACKET.
   - Remove top self-locking nut (1), lock washer (2), screw (3), Voltage Regulator VR1 (4), and heat sink (5) from bracket (6). Use No. 2 offset cross tip screwdriver and 5/16 inch open end wrench. Discard lock washer and self-locking nut.



AF. VOLTAGE REGULATOR VR1 AND HEAT SINK INSTALLATION

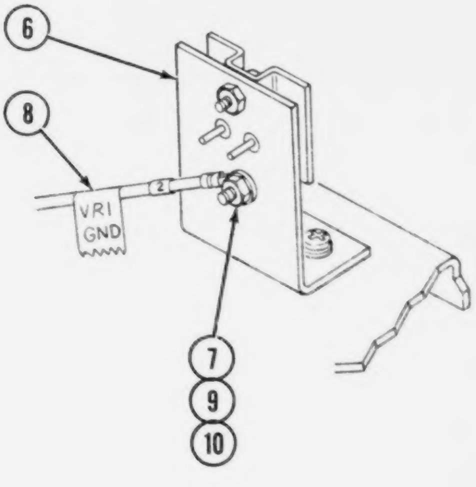
1. INSTALL VOLTAGE REGULATOR VR1 AND HEAT SINK ON VR1 MOUNTING BRACKET.
   - Install heat sink (1), Voltage Regulator VR1 (2), screw (3), new lock washer (4), and self-locking nut (5) in top mounting hole of bracket (6). Use No. 2 offset cross tip screwdriver and 5/16 inch open end wrench.



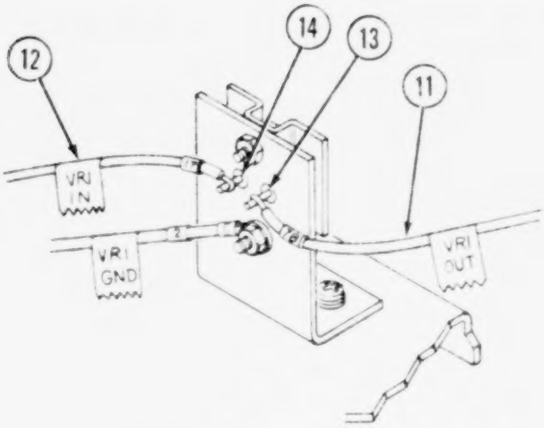
CAUTION

Excessive heat will destroy voltage regulator. Use heat sink when applying heat to voltage regulator.

2. INSTALL LEADS ON VOLTAGE REGULATOR VR1. (SEE TM 55-1500-323-25.)
   - Install screw (7), Lead No. 2 (8), new lock washer (9), and new self-locking nut (10) in bottom mounting hole of bracket (6). Use No. 2 offset cross tip screwdriver and 5/16 inch open end wrench.



- Install shrink tubing on Lead No. 78 (11) and Lead No. 17 (12). (See TM 55-1500-323-25.)
- Solder Lead No. 78 (11) at VR1 output terminal (13). (See TM 55-1500-323-25 and Voltage Regulator Terminal Diagram, Page 11-149.)
- Solder Lead No. 17 (12) at VR1 input terminal (14). (See TM 55-1500-323-25 and Voltage Regulator Terminal Diagram, Page 11-149.)
- Shrink heat shrink tubing on Lead No. 78 (11) and Lead No. 17 (12). (See TM 55-1500-323-25.)
- Remove tags from leads.



3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)

NOTE

FOLLOW-ON MAINTENANCE:
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

AG. VOLTAGE REGULATOR BRACKET REMOVAL

NOTE

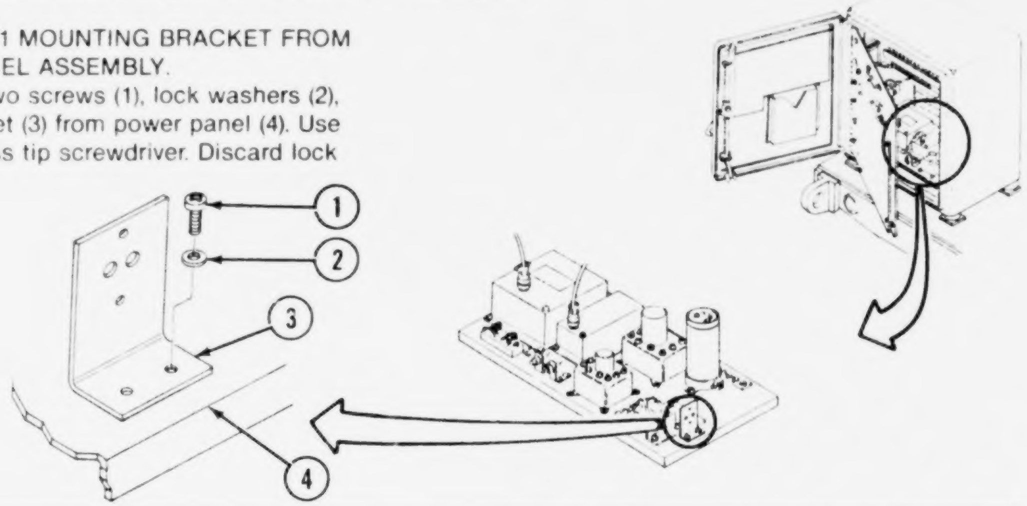
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)
2. REMOVE VOLTAGE REGULATOR VR1 AND HEAT SINK FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-149.)

GO TO NEXT PAGE

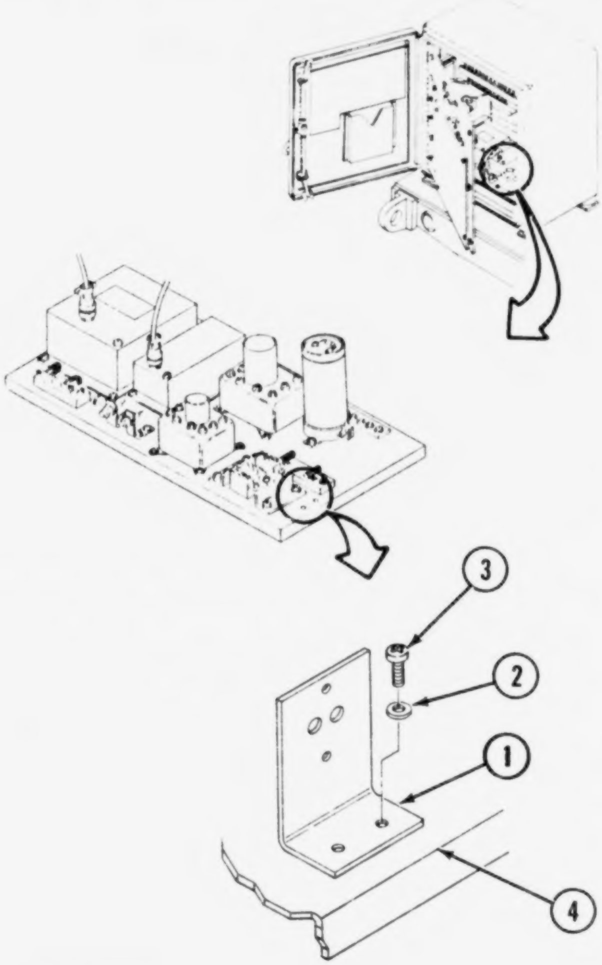
AG. VOLTAGE REGULATOR BRACKET REMOVAL — Continued

3. REMOVE VR1 MOUNTING BRACKET FROM POWER PANEL ASSEMBLY.
   - Remove two screws (1), lock washers (2), and bracket (3) from power panel (4). Use No. 2 cross tip screwdriver. Discard lock washers.



AH. VOLTAGE REGULATOR BRACKET INSTALLATION

1. INSTALL VR1 MOUNTING BRACKET ON POWER PANEL ASSEMBLY.
   - Install bracket (1), two new lock washers (2), and screws (3) on power panel (4). Use No. 2 cross tip screwdriver.
2. INSTALL VOLTAGE REGULATOR VR1 AND HEAT SINK ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-150.)
3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)



NOTE

FOLLOW-ON MAINTENANCE:
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

AI. GROUND BUS REMOVAL

NOTE

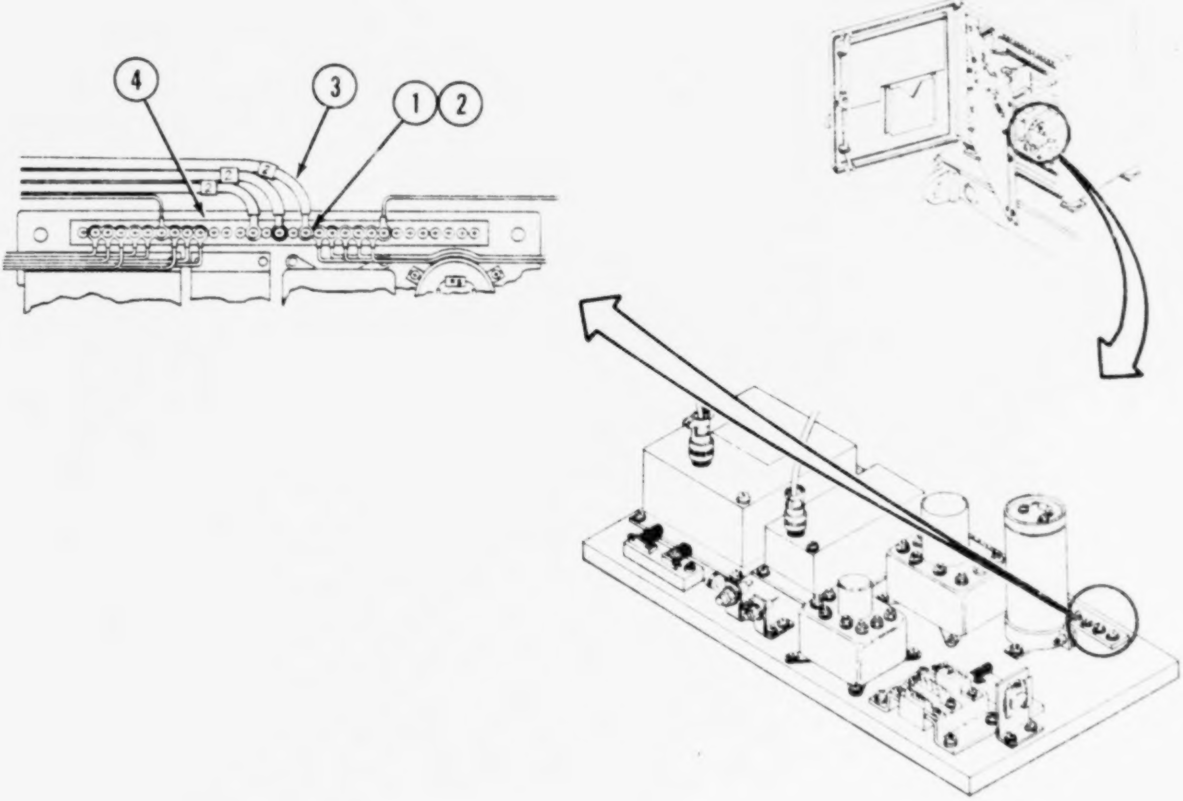
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E /ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

NOTE

Leads are removed from ground bus the same way. Step 2 shows 8 AWG Lead No. 2.

2. REMOVE LEADS FROM GROUND BUS.
   - Tag and mark leads.
   - Remove screw (1), lock washer (2), and 8 AWG Lead No. 2 (3) from ground bus (4). Use No. 2 cross tip screwdriver. Discard lock washer.
   - Repeat above removal step for other ground bus leads.



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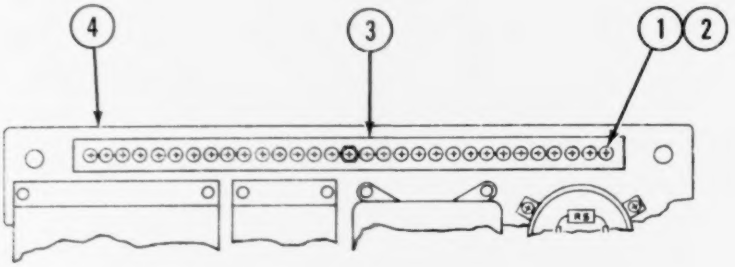
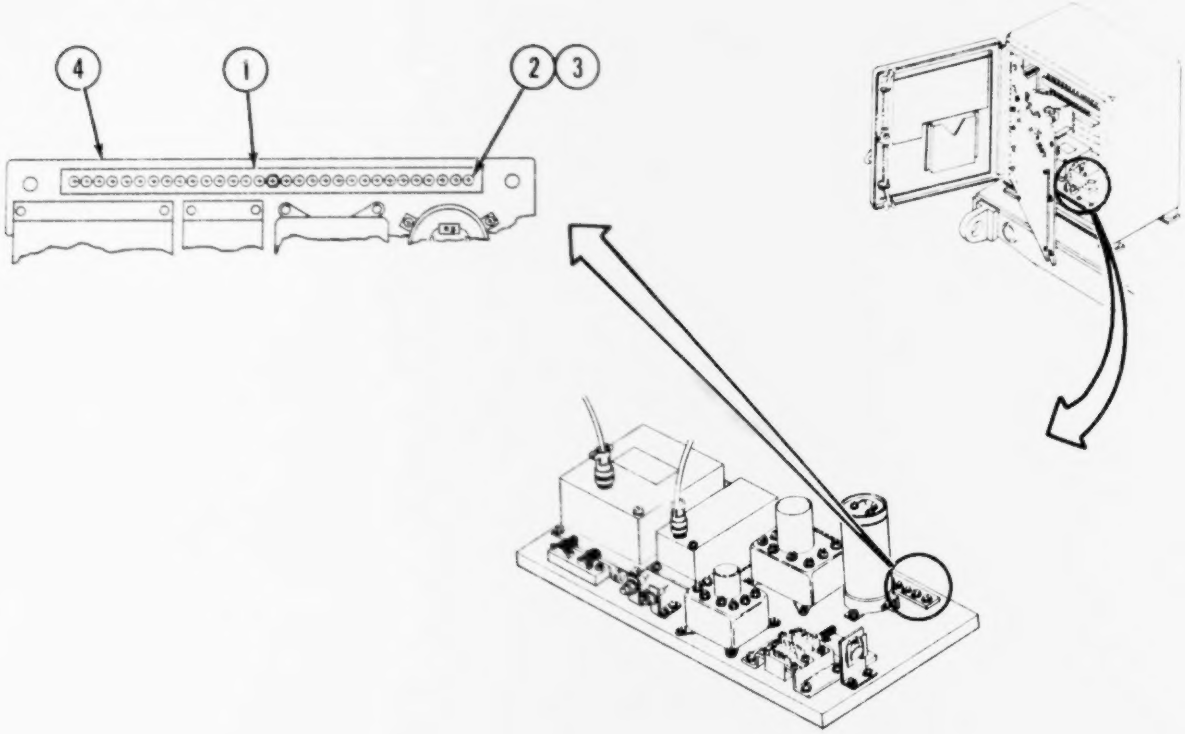
AI. GROUND BUS REMOVAL — Continued

3. REMOVE GROUND BUS FROM POWER PANEL ASSEMBLY.
   - Remove two screws (1), lock washers (2), and ground bus (3) from power panel (4). Use No. 2 cross tip screwdriver. Discard lock washers.



AJ. GROUND BUS INSTALLATION

1. INSTALL GROUND BUS ON POWER PANEL ASSEMBLY.
   - Install ground bus (1), two new lock washers (2), and screws (3) on power panel (4). Use No. 2 cross tip screwdriver.

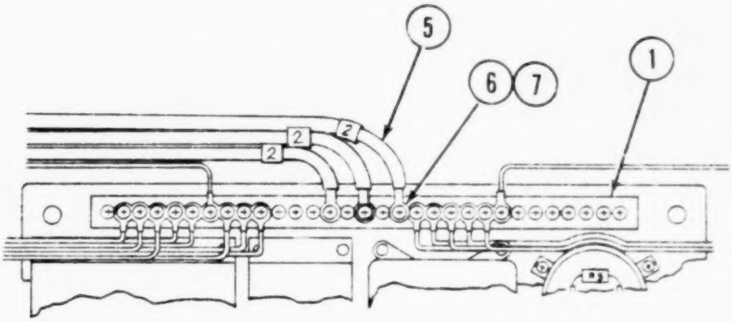


NOTE

Leads are installed on ground bus the same way. Step 2 shows 8 AWG Lead No. 2.

2. INSTALL LEADS ON GROUND BUS.
   - Install 8 AWG Lead No. 2 (5), new lock washer (6), and screw (7) on ground bus (1). Use No. 2 cross tip screwdriver.
   - Repeat above installation step for other ground bus leads.
   - Remove tags from leads.

3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

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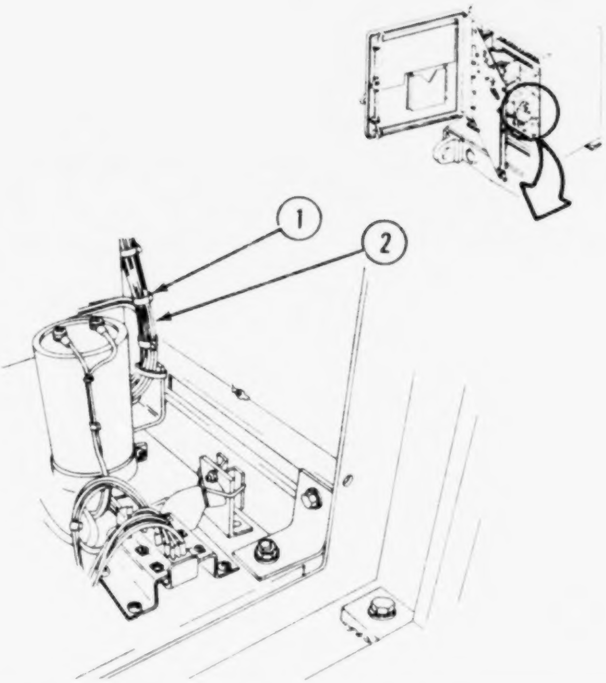
11-9 POWER PANEL ASSEMBLY — Continued

AK. POWER PANEL ASSEMBLY EXTERNAL WIRING DISCONNECTION



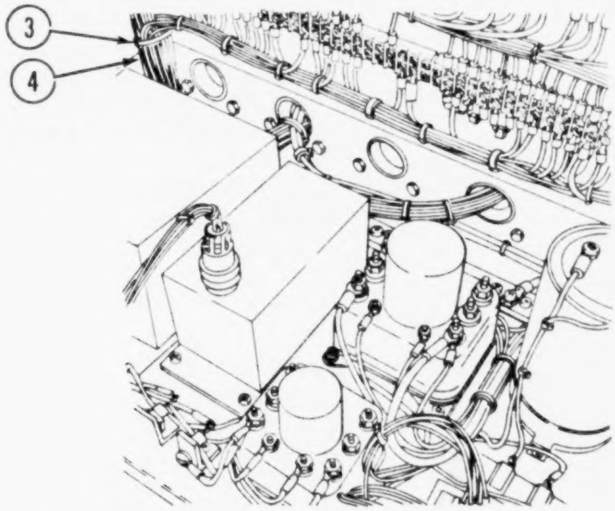
NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

2. IDENTIFY POWER PANEL EXTERNAL LEADS ON TERMINAL PANEL.
   - Cut and remove cable ties (1) from power panel right side wire bundle (2). Use diagonal cutting pliers. Discard cable ties.

- Cut and remove cable ties (3) from power panel left side wire bundle (4). Use diagonal cutting pliers. Discard cable ties.



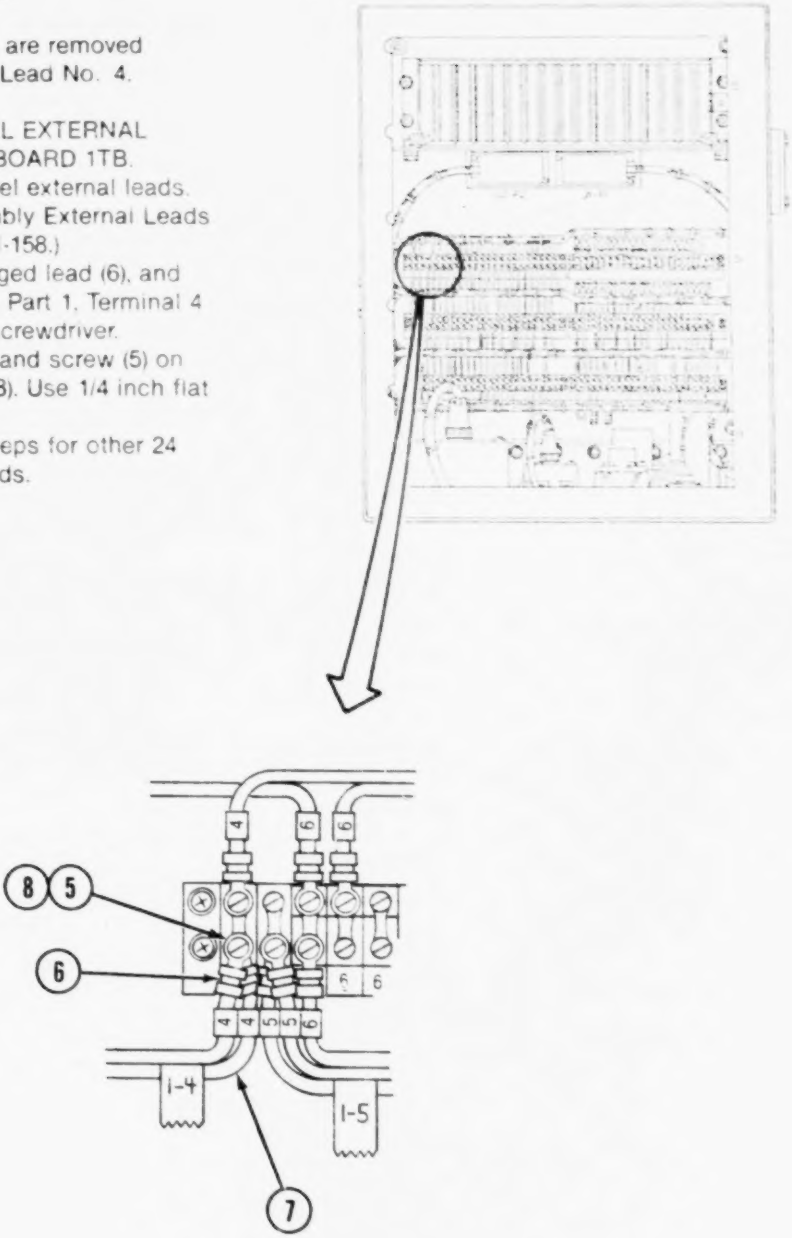
NOTE

If you are removing power panel assembly only, go to step 4.

• • • •

Power panel external leads are removed the same way. Step shows Lead No. 4.

3. REMOVE 25 POWER PANEL EXTERNAL LEADS FROM TERMINAL BOARD 1TB.
   - Tag and mark power panel external leads. (See Power Panel Assembly External Leads Destination List, Page 11-158.)
   - Remove screw (5), untagged lead (6), and Lead No. 4 (7) from 1TB, Part 1, Terminal 4 (8). Use 1/4 inch flat tip screwdriver.
   - Install untagged lead (6) and screw (5) on 1TB, Part 1, Terminal 4 (8). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal steps for other 24 power panel external leads.



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AK. POWER PANEL ASSEMBLY EXTERNAL WIRING DISCONNECTION — Continued

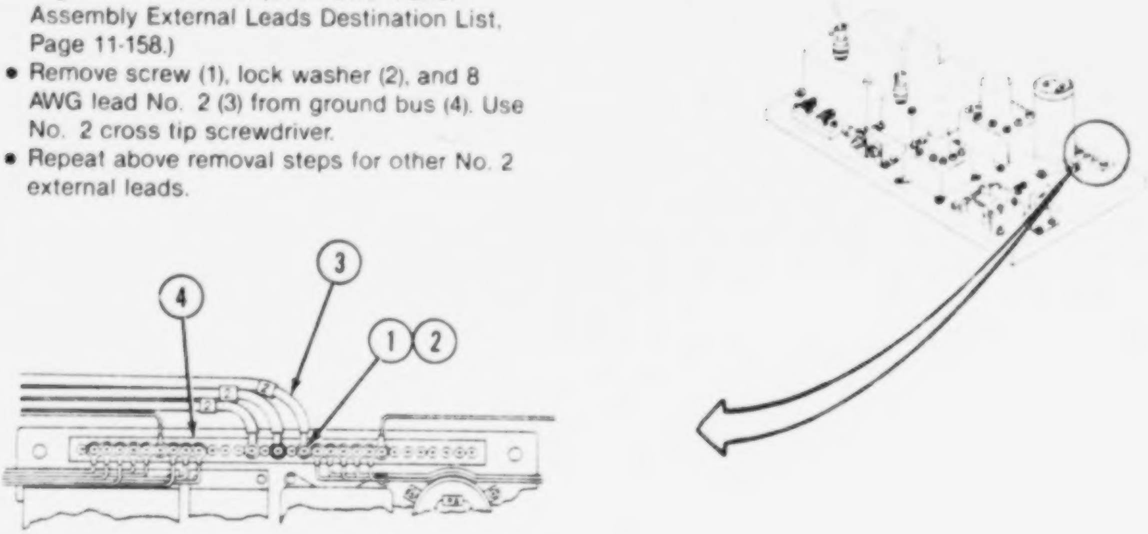
POWER PANEL ASSEMBLY EXTERNAL LEADS DESTINATION LIST

NOTE

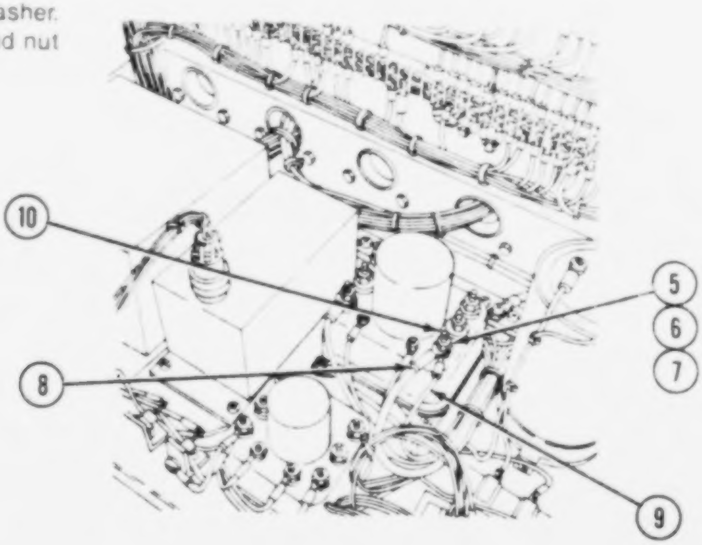
Some power panel assembly external leads do not go to Terminal Board 1TB. They are as follows:
Wire No. 1 from starter motor to Relay K1 Terminal A1
Wire No. 2 from bell housing to ground bus.
Wire No. 2 from P43 to ground bus
Wire No. 2 from P44 to ground bus.
These leads are Wire Gage 8.

Wire No.	From Connection	To Terminal Board 1TB Part No.	Terminal No.	Wire Gage
4	K3-A2	1	4	16
5	K2-A2	1	5	16
Jumper	K1-A1	1	8	16
9	K1-X1	1	9	16
17	P36E	1	17	14
17	P36F	1	17	14
20	K3-B2	1	20	20
25	K4-A2	1	25	20
51	K3-A3	2	51	20
107	R2, R3	3	107	16
2	Ground bus	4	2	10
54	K5-X2	4	54	16
2	Ground bus	5	2	16
10	K1-X2	5	10	16
77	K5-A2	5	77	16
78	VR1-2	3	78	20
86	K4-X1	5	86	20
87	K3-B3	5	87	20
17	R2, R3	1	17	16
15	D2 (+)	5	15	16
3	K1-A2	5	3	10
93	K5-X1	6	93	20
106	P57C	6	106	20
106	R4	6	106	20
106	K5-A1	6	106	16

4. REMOVE POWER PANEL EXTERNAL LEADS FROM POWER PANEL ASSEMBLY.
   - Tag and mark leads. (See Power Panel Assembly External Leads Destination List, Page 11-158.)
   - Remove screw (1), lock washer (2), and 8 AWG lead No. 2 (3) from ground bus (4). Use No. 2 cross tip screwdriver.
   - Repeat above removal steps for other No. 2 external leads.



- Remove nut (5), lock washer (6), washer (7), 8 AWG Lead No. 1 (8), and untagged lead (9) from Relay K1 Terminal A1 (10). Use 7/16 inch open end wrench. Discard lock washer.
- Install untagged lead (9), washer (7), and nut (5) on Relay K1 Terminal A1 (10).



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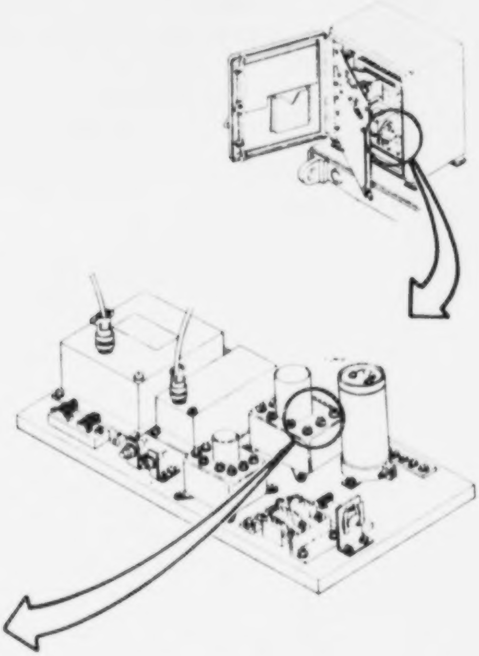
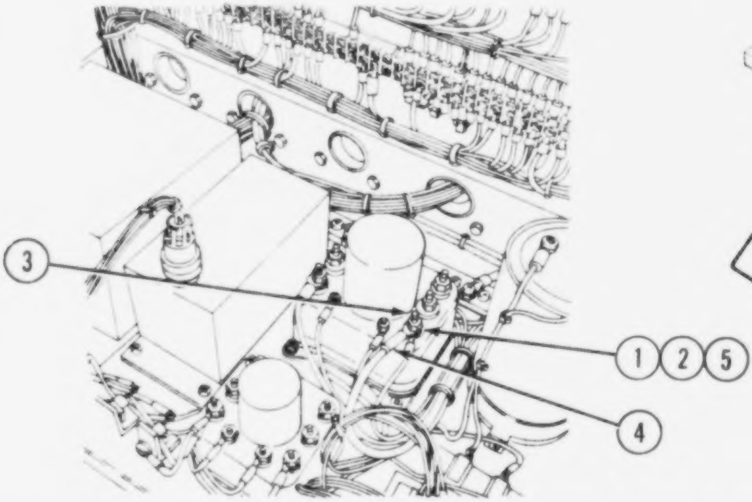
11-9 POWER PANEL ASSEMBLY — Continued

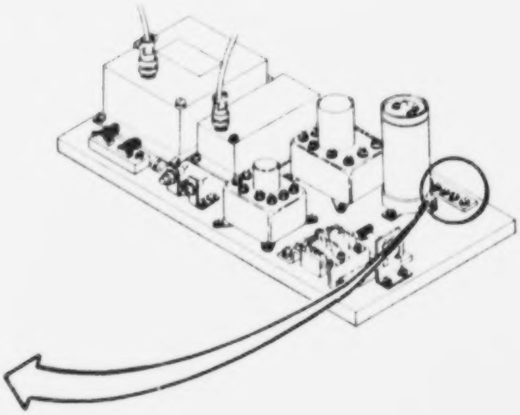
AL. POWER PANEL ASSEMBLY EXTERNAL WIRING CONNECTION

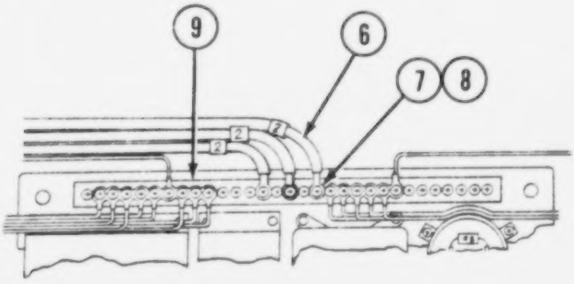
1. INSTALL TWO POWER PANEL EXTERNAL LEADS ON POWER PANEL ASSEMBLY.
   - Remove nut (1) and washer (2) from Relay K1 Terminal A1 (3).
   - Install 8 AWG Lead No. 1 (4), washer (2), new lock washer (5), and nut (1) on Relay K1 Terminal A1 (3). Use 7/16 inch open end wrench.





- Install 8 AWG Lead No. 2 (6), new lock washer (7), and screw (8) on ground bus (9). Use No. 2 cross tip screwdriver.
- Remove tags from leads.
- Repeat above installation steps for other No. 2 leads.

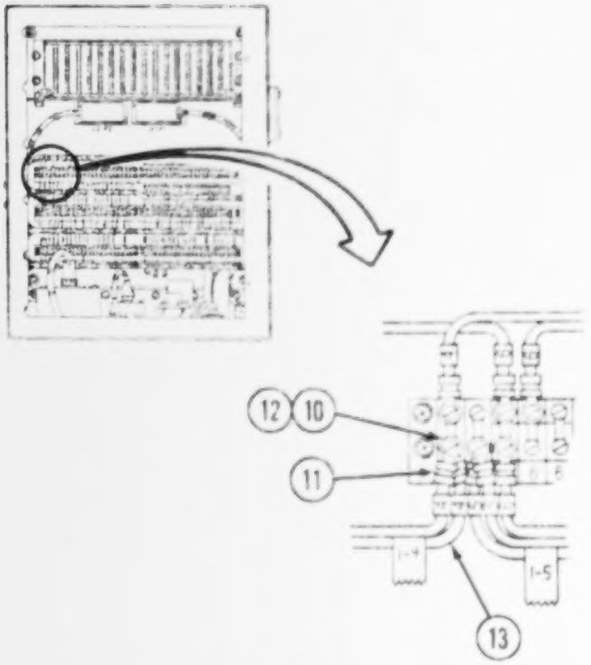




NOTE

Power panel external leads are installed the same way. Step 2 shows Lead No. 4.

2. INSTALL 25 POWER PANEL EXTERNAL LEADS ON TERMINAL BOARD 1TB.
   - Remove screw (10) and untagged lead (11) from 1TB, Part 1, Terminal 4 (12). Use 1/4 inch flat tip screwdriver.
   - Install untagged lead (11), Lead No. 4 (13), and screw (10) on 1TB, Part 1, Terminal 4 (12). Use 1/4 inch flat tip screwdriver.
   - Repeat above installation steps for other 24 power panel external leads. (See Power Panel Assembly External Leads Destination List, Page 11-158.)
   - Remove tags from leads.



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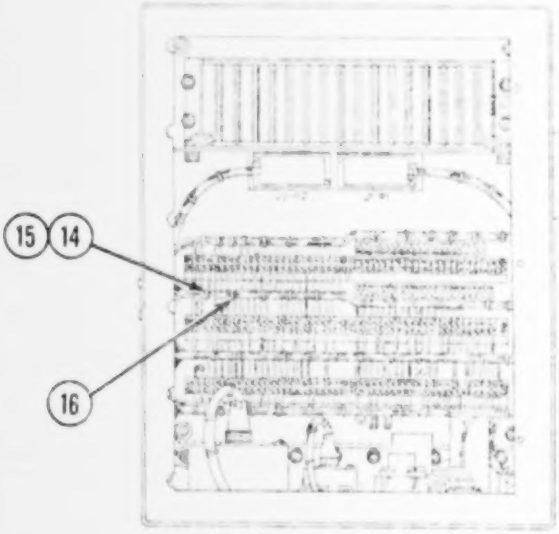
3. BUNDLE AND TIE POWER PANEL EXTERNAL LEADS ON TERMINAL PANEL.
   - Bundle power panel leads (14) with other terminal panel leads (15).
   - Install new cable ties (16) on bundled leads (14) and (15) as required. Use round nose pliers.

4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

GO TO NEXT PAGE

11-9 POWER PANEL ASSEMBLY — Continued

AM. POWER PANEL ASSEMBLY REMOVAL

NOTE

PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

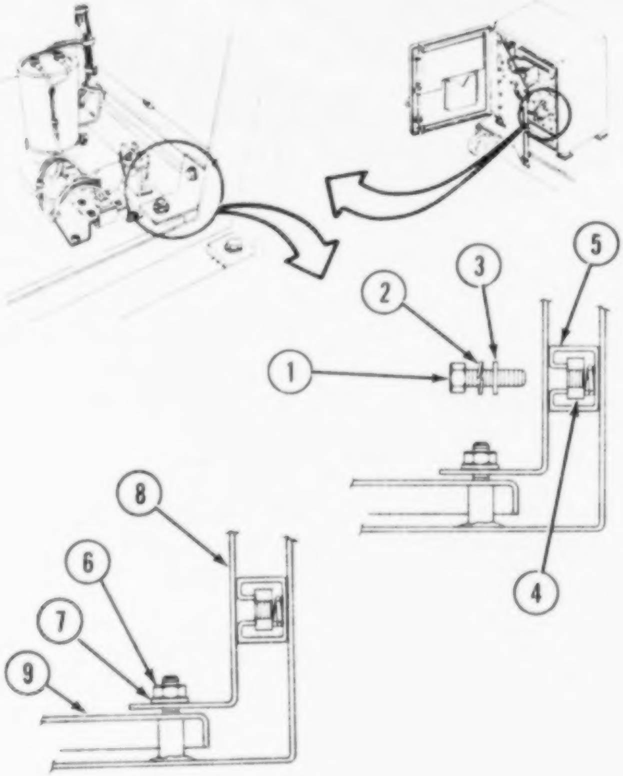
2. DISCONNECT POWER PANEL ASSEMBLY EXTERNAL WIRING FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-156.)

NOTE

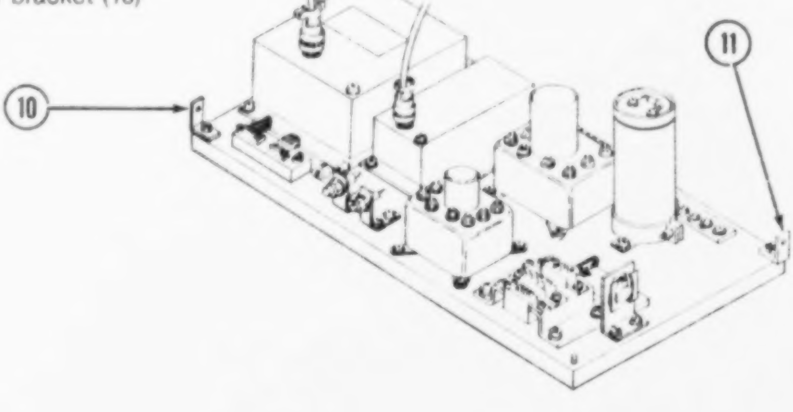
Heat transfer brackets are removed the same way. Step 3 shows heat transfer bracket at right front.

• • • •

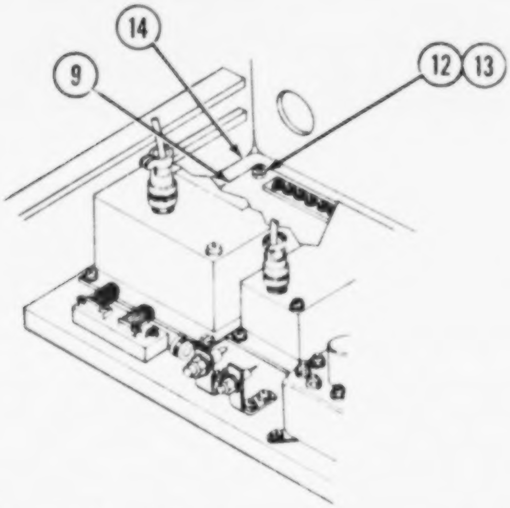
Do not remove clamping nut from unistrut.

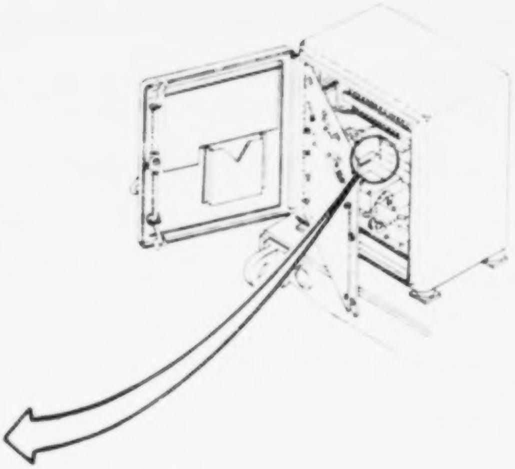


3. REMOVE THREE HEAT TRANSFER BRACKETS FROM POWER PANEL ASSEMBLY.
   - Remove screw (1), lock washer (2), and washer (3) from clamping nut (4) on unistrut (5). Use 7/16 inch socket with ratchet handle. Discard lock washer.
   - Remove nut (6), washer (7), and bracket (8) from power panel assembly (9). Use 9/16 inch socket with 6 inch extension and ratchet handle.
   - Repeat above removal steps for bracket (10) and bracket (11).



4. REMOVE POWER PANEL ASSEMBLY FROM ELECTRICAL ENCLOSURE ASSEMBLY.
   - Remove nut (12), washer (13), and power panel assembly (9) from electrical enclosure assembly (14). Use 9/16 inch socket with 6 inch extension and ratchet handle.





AN. POWER PANEL ASSEMBLY DISASSEMBLY

1. REMOVE POWER PANEL ASSEMBLY WIRING FROM POWER PANEL ASSEMBLY. (SEE POWER PANEL ASSEMBLY, PAGE 11-167.)

2. REMOVE POWER MODULE PS-1 AND PLATE FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-112.)

3. REMOVE POWER MODULE PS-2 AND PLATE FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-116.)

4. REMOVE RELAY K1 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-120.)

5. REMOVE RELAY K2 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-123.)

6. REMOVE RELAYS K3, K4, AND K5 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-126.)

7. REMOVE RELAY MOUNTING BRACKETS FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-128.)

8. REMOVE RESISTORS R1, R2, R3, AND R4 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-130.)

GO TO NEXT PAGE

AN. POWER PANEL ASSEMBLY DISASSEMBLY — Continued

9. REMOVE RESISTORS R1, R2, R3, AND R4 MOUNTING BRACKETS FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-132.)
10. REMOVE RESISTOR R5 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-135.)
11. REMOVE CAPACITOR C1 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-137.)
12. REMOVE CAPACITOR MOUNTING BRACKET FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-139.)
13. REMOVE DIODE D2 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-141.)
14. REMOVE DIODE D7 FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-143.)
15. REMOVE DIODE D2 MOUNTING BRACKET FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-145.)
16. REMOVE DIODE D7 MOUNTING BRACKET FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-147.)
17. REMOVE VOLTAGE REGULATOR VR1 AND HEAT SINK FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-149.)
18. REMOVE VOLTAGE REGULATOR BRACKET FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-151.)
19. REMOVE GROUND BUS FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-152.)

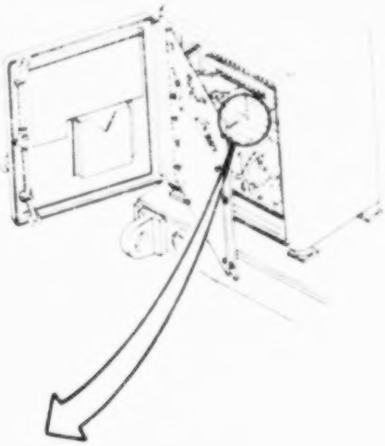
AO. POWER PANEL ASSEMBLY REASSEMBLY

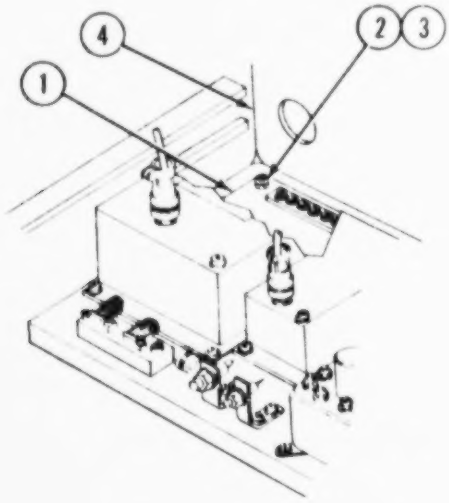
1. INSTALL GROUND BUS ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-154.)
2. INSTALL VOLTAGE REGULATOR BRACKET ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-153.)
3. INSTALL VOLTAGE REGULATOR VR1 AND HEAT SINK ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-150.)
4. INSTALL DIODE D7 MOUNTING BRACKET ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-148.)
5. INSTALL DIODE D2 MOUNTING BRACKET ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-146.)
6. INSTALL DIODE D7 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-144.)
7. INSTALL DIODE D2 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-142.)
8. INSTALL CAPACITOR MOUNTING BRACKET ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-140.)
9. INSTALL CAPACITOR C1 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-138.)

10. INSTALL RESISTOR R5 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-136.)
11. INSTALL RESISTORS R1, R2, R3, AND R4 MOUNTING BRACKETS ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-131.)
12. INSTALL RESISTORS R1, R2, R3, AND R4 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-131.)
13. INSTALL RELAY MOUNTING BRACKETS ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-129.)
14. INSTALL RELAYS K3, K4, AND K5 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-127.)
15. INSTALL RELAY K2 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-124.)
16. INSTALL RELAY K1 ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-121.)
17. INSTALL POWER MODULE PS-2 AND PLATE ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-118.)
18. INSTALL POWER MODULE PS-1 AND PLATE ON DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-115.)
19. INSTALL POWER PANEL ASSEMBLY WIRING ON POWER PANEL ASSEMBLY. (SEE POWER PANEL ASSEMBLY, PAGE 11-169.)

AP. POWER PANEL ASSEMBLY INSTALLATION

1. INSTALL POWER PANEL ASSEMBLY ON ELECTRICAL ENCLOSURE ASSEMBLY.
   - Install power panel assembly (1), washer (2), and nut (3) on electrical enclosure assembly (4). Use 9/16 inch socket with 6 inch extension and ratchet handle.





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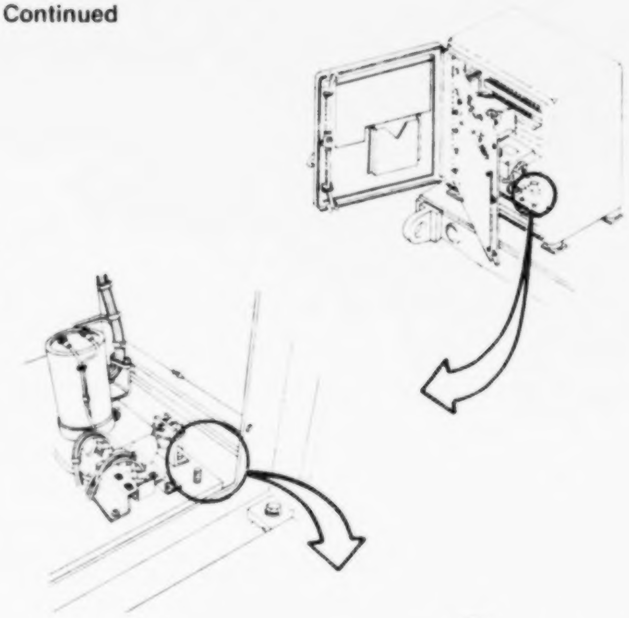
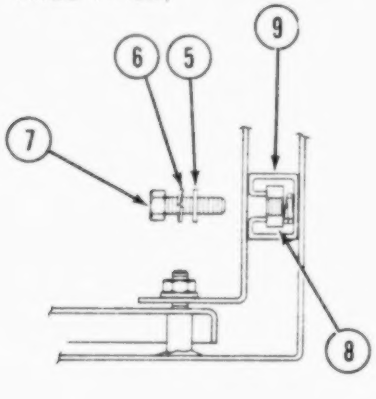
AP. POWER PANEL ASSEMBLY INSTALLATION — Continued

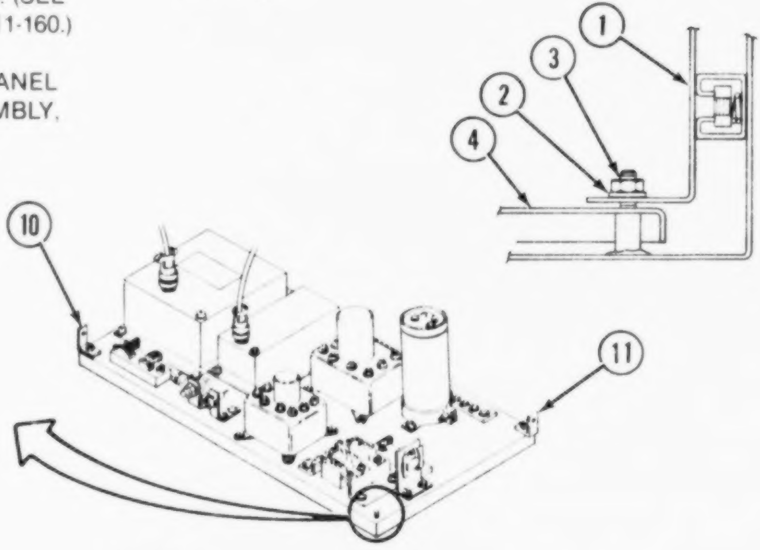
NOTE

Heat transfer brackets are installed the same way. Step 2 shows bracket at right front.



2. INSTALL THREE HEAT TRANSFER BRACKETS ON POWER PANEL ASSEMBLY.
   - Install bracket (1), washer (2), and nut (3) on power panel assembly (4). Use 9/16 inch socket with 6 inch extension and ratchet handle.
   - Install washer (5), new lock washer (6), and screw (7) on clamping nut (8) of unistrut (9). Use 7/16 inch socket with ratchet handle.
   - Repeat above installation steps for bracket (10) and bracket (11).
3. CONNECT POWER PANEL ASSEMBLY EXTERNAL WIRING TO DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-160.)
4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)





NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

AQ. POWER PANEL ASSEMBLY WIRING REMOVAL

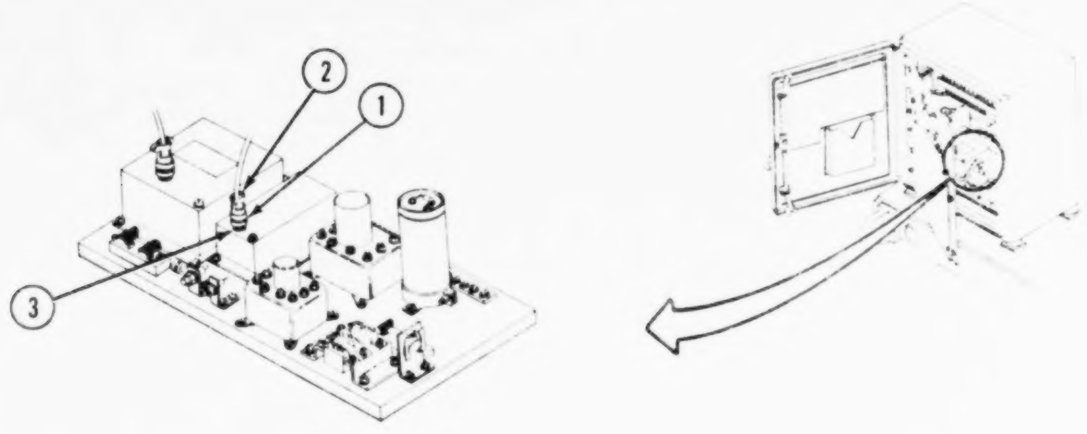
NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

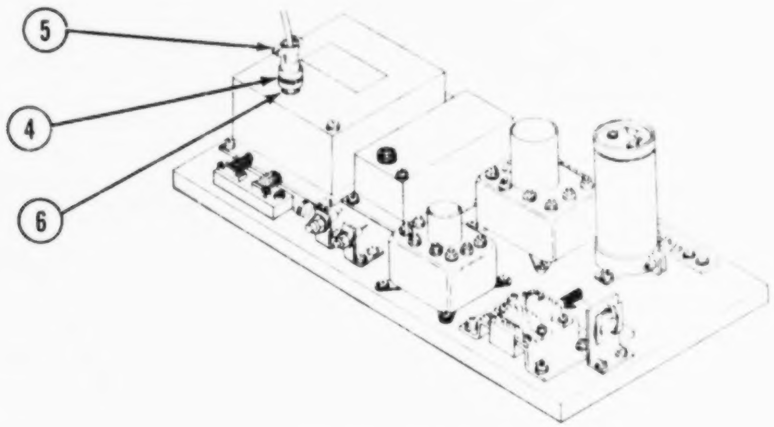
1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-113.)

2. DISCONNECT POWER PANEL ASSEMBLY EXTERNAL LEADS FROM DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-156.)

3. TURN CONNECTOR SLEEVE (1), AND DISCONNECT CONNECTOR P36 (2) FROM RECEPTACLE J36 (3).



4. TURN CONNECTOR SLEEVE (4), AND DISCONNECT CONNECTOR P57 (5) FROM RECEPTACLE J57 (6).



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AQ. POWER PANEL ASSEMBLY WIRING REMOVAL — Continued

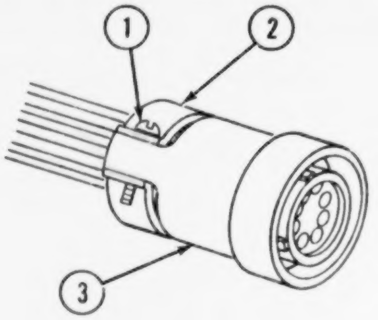
NOTE

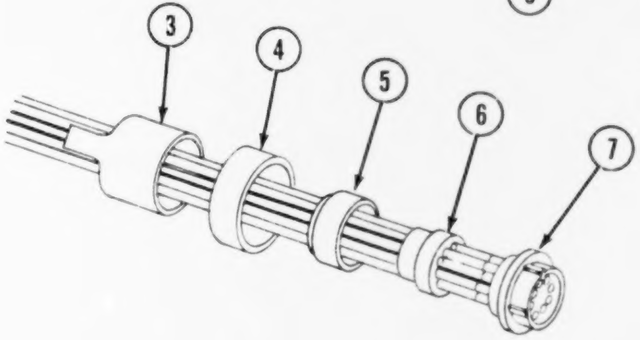
If Connector P36, P57, or power panel wiring is to be replaced, go to step 5. If Connector P36, P57, and power panel wiring is to be reinstalled, go to step 7.

• • • •

Leads are removed from Connectors P36 and P57 the same way. Steps 5 and 6 show Connector P36.

5. PREPARE CONNECTOR P36 FOR UNSOLDERING OF LEADS.
   - Remove two screws (1) and cable clamps (2) from backshell (3). Use No. 1 cross tip screwdriver.
   - Remove backshell (3), connector sleeve (4), compression sleeve (5), and bushing seal (6) from connector base (7). Use two slip joint pliers.





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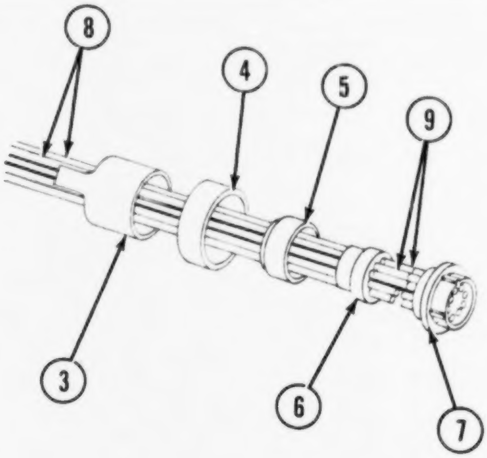
6. UNSOLDER LEADS AT CONNECTOR P36. (SEE TM 55-1500-323-25.)
   - Unsolder leads (8) at terminals (9) on connector base (7). (See TM 55-1500-323-25.)
   - Remove bushing seal (6), compression sleeve (5), connector sleeve (4), and backshell (3) from leads (8).



7. REMOVE LEADS FROM RELAY K1. (SEE POWER PANEL ASSEMBLY, PAGE 11-120.)

8. REMOVE LEADS FROM RELAY K2. (SEE POWER PANEL ASSEMBLY, PAGE 11-123.)

9. UNSOLDER LEADS AT RELAYS K3, K4, AND K5. (SEE POWER PANEL ASSEMBLY, PAGE 11-126.)

10. UNSOLDER LEADS AT RESISTORS R1, R2, R3, AND R4. (SEE POWER PANEL ASSEMBLY, PAGE 11-130.)

11. REMOVE RESISTOR R5 FROM CAPACITOR C1. (SEE POWER PANEL ASSEMBLY, PAGE 11-135.)

12. REMOVE DIODE D2 FROM DIODE MOUNTING BRACKET. (SEE POWER PANEL ASSEMBLY, PAGE 11-141.)

13. REMOVE DIODE D7 FROM DIODE MOUNTING BRACKET. (SEE POWER PANEL ASSEMBLY, PAGE 11-143.)

14. REMOVE LEADS FROM VOLTAGE REGULATOR VR1. (SEE POWER PANEL ASSEMBLY, PAGE 11-149.)

15. REMOVE LEADS FROM GROUND BUS. (SEE POWER PANEL ASSEMBLY, PAGE 11-153.)

AR. POWER PANEL ASSEMBLY WIRING INSTALLATION

NOTE

If installing new connector P36, P57, or power panel wiring, go to step 1. If installing old Connector P36, P57, or power panel wiring, go to step 5.

1. PREPARE POWER PANEL WIRING FOR INSTALLATION. (SEE TM 55-1500-323-25.)

NOTE

Column references are to Power Panel Wiring Destination List, Page 11-170.)

- Prepare leads in sequence listed in Column 1.
- Use wire gage shown in Column 2.
- Cut lead to length shown in Column 3.
- Prepare lead end for type connection shown in Column 4. (See TM 55-1500-323-25.)
- Cover soldered connections with heat shrink tubing. (See TM 55-1500-323-25.)
- Route lead from terminal location shown in Column 5 to terminal destination shown in Column 6. (See Lead Routing Diagram, Page 11-173.)
- Prepare lead end for type connection shown in Column 7. (See TM 55-1500-323-25.)
- Cover soldered connections with heat shrink tubing. (See TM 55-1500-323-25.)
- Tag and mark lead with "from" location shown in Column 5 to "to" location shown in Column 6.

GO TO NEXT PAGE

AR. POWER PANEL ASSEMBLY WIRING INSTALLATION — Continued

POWER PANEL WIRING DESTINATION LIST

Column 1	Column 2	Column 3	Column 4		Column 5	Column 6	Column 7	
			Type Connection				Type Connection	
Wire No.	Wire Gage	Lead Length, inches (cm)	Terminal Lug	Solder	From Terminal Location	To Terminal Location	Terminal Lug	Solder
16	20	14(35.6)	...	X	P36A	Diode D2(−)	X	...
16	20	14(35.6)	...	X	P36B	Diode D2(−)	X	...
2	20	28(71.1)	...	X	P36C	Ground bus	X	...
2	20	28(71.1)	...	X	P36D	Ground bus	X	...
17	14	40(101.6)	...	X	P36E	1TB, Part 1, 17	X	...
17	14	40(101.6)	...	X	P36F	1TB, Part 1, 17	X	...
2	20	28(71.1)	...	X	P36G	Ground bus	X	...
2	20	28(71.1)	...	X	P36H	Ground bus	X	...
16	20	18(45.7)	...	X	P57A	Diode D2(−)	X	...
2	20	14(35.6)	...	X	P57B	Ground bus	X	...
106	20	50(127.0)	...	X	P57C	1TB, Part 6, 106	X	...
2	20	14(35.6)	...	X	P57D	Ground bus	X	...
9	16	44(111.8)	X	X	Relay K1-X1	1TB, Part 1, 9	X	...
10	16	48(121.9)	X	...	Relay K1-X2	1TB, Part 5, 10	X	...
Jumper	16	46(116.8)	X	...	Relay K1-A1	1TB, Part 1, 8	X	...
3	16	10(25.4)	X	...	Relay K1-A2	Relay K2-A1	X	...
3	10	43(109.2)	X	...	Relay K1-A2	1TB, Part 5, 3	X	...
89	20	18(45.7)	X	...	Relay K2-X1	Relay K4-A3	...	X
2	20	20(50.8)	X	...	Relay K2-X2	Ground bus	X	...
5	16	46(116.8)	X	...	Relay K2-A2	1TB, Part 1, 5	X	...
5	16	8(20.3)	X	...	Relay K2-A2	Diode D7(−)	X	...
86	20	5(12.7)	...	X	Relay K3-X1	Relay K4-X1	...	X
2	20	18(45.7)	...	X	Relay K3-X2	Ground bus	X	...
4	16	54(137.2)	...	X	Relay K3-A2	1TB, Part 1, 4	X	...

POWER PANEL WIRING DESTINATION LIST — Continued

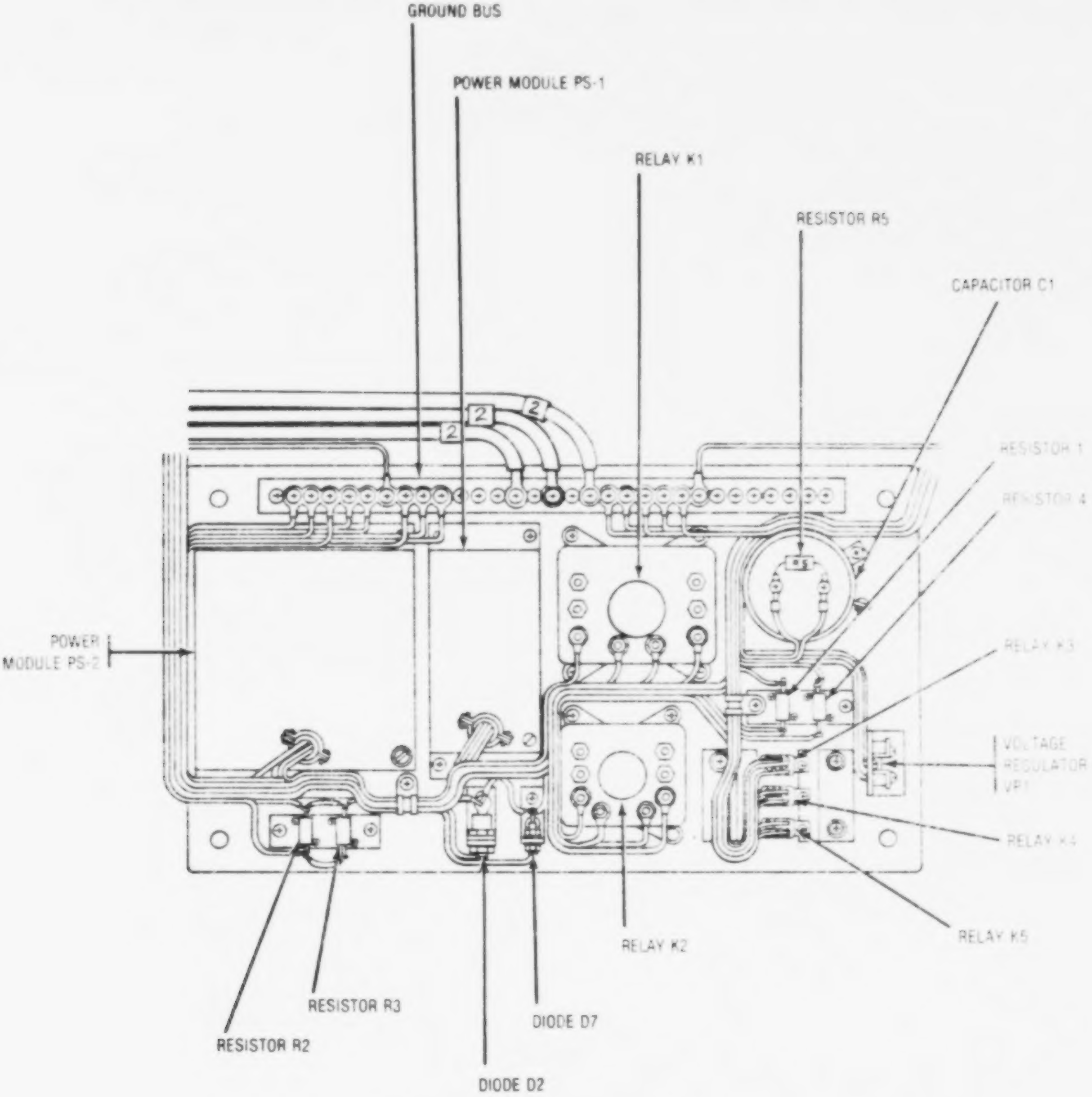
Column 1	Column 2	Column 3	Column 4		Column 5	Column 6	Column 7	
			Type Connection				Type Connection	
Wire No.	Wire Gage	Lead Length, Inches (cm)	Terminal Lug	Solder	From Terminal Location	To Terminal Location	Terminal Lug	Solder
51	20	40(101.6)	. . .	X	Relay K3-A3	1TB, Part 2, 51	X	. . .
20	20	45(114.3)	. . .	X	Relay K3-B2	1TB, Part 1, 20	X	. . .
87	20	38(46.5)	. . .	X	Relay K3-B3	1TB, Part 5, 87	X	. . .
86	20	38(96.5)	. . .	X	Relay K4-X1	1TB, Part 5, 86	X	. . .
2	20	18(45.7)	. . .	X	Relay K4-X2	Ground bus	X	. . .
25	20	42(106.7)	. . .	X	Relay K4-A2	1TB, Part 1, 25	X	. . .
93	20	32(81.3)	. . .	X	Relay K5-X1	1TB, Part 6, 93	X	. . .
54	20	32(81.3)	. . .	X	Relay K5-X2	1TB, Part 4, 54	X	. . .
106	16	30(76.2)	. . .	X	Relay K5-A1	1TB, Part 6, 106	X	. . .
77	16	40(101.6)	. . .	X	Relay K5-A2	1TB, Part 5, 77	X	. . .
14	16	14(35.6)	. . .	X	Resistor R1	Capacitor C1(+)	X	. . .
16	16	12(30.5)	. . .	X	Resistor R1	Diode D2(−)	X	. . .
17	16	2(5.1)	. . .	X	Inboard on Resistor R2	Inboard on Resistor R3	. . .	X
17	16	24(61.0)	. . .	X	Inboard on Resistors R2, R3	1TB, Part 1, 17	X	. . .
17	20	18(45.7)	. . .	X	Inboard on Resistors R2, R3	Inboard on VR1 terminal	. . .	X
107	16	2(5.1)	. . .	X	Outboard on Resistor R2	Outboard on Resistor R3	. . .	X
107	16	23(58.4)	. . .	X	Outboard on Resistors R2, R3	1TB, Part 3, 107	X	. . .
2	16	10(25.4)	. . .	X	Outboard on Resistor R4	Ground bus	X	. . .

GO TO NEXT PAGE

AR. POWER PANEL ASSEMBLY WIRING INSTALLATION — Continued

POWER PANEL WIRING DESTINATION LIST — Continued

Column 1	Column 2	Column 3	Column 4		Column 5	Column 6	Column 7	
			Type Connection				Type Connection	
Wire No.	Wire Gage	Lead Length, inches (cm)	Terminal Lug	Solder	From Terminal Location	To Terminal Location	Terminal Lug	Solder
106	16	22(55.9)	...	X	Inboard on Resistor R4	1TB, Part 6, 106	X	
15	16	28(71.1)	...	X	Diode D2(+)	1TB, Part 5, 15	X	
2	16	20(50.8)	...	X	Diode D7(+)	Ground bus	X	
2	16	22(55.9)	X	...	Capacitor C1(−)	Ground bus	X	
78	20	46(116.8)	...	X	Outboard on VR1 terminal	1TB, Part 3, 78	X	
2	20	12(30.5)	X	...	Case VR1 ground	Ground bus	X	



Lead Routing Diagram

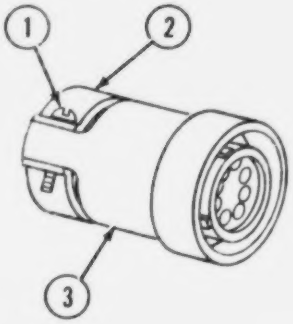
GO TO NEXT PAGE

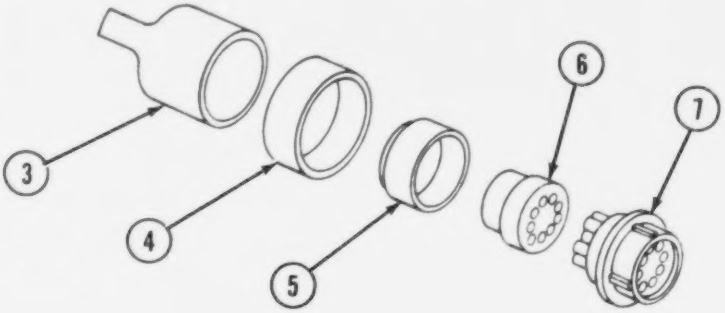
AR. POWER PANEL ASSEMBLY WIRING INSTALLATION — Continued

NOTE

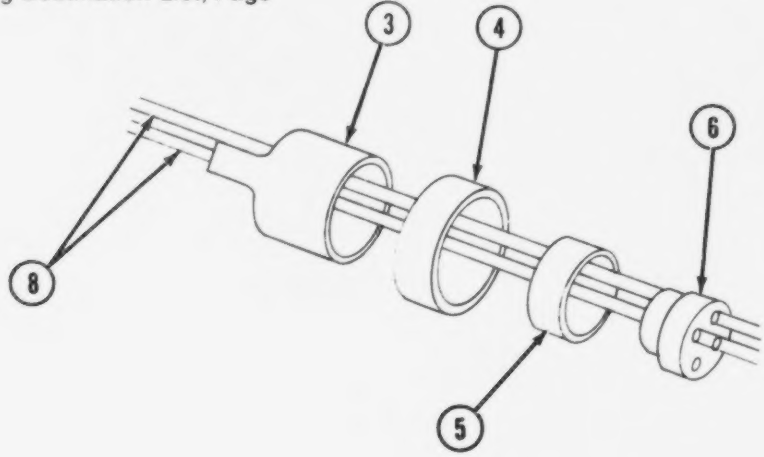
Leads are installed in Connectors P36 and P57 the same way. Steps 2 thru 4 show Connector P36.

2. PREPARE NEW CONNECTOR P36 FOR SOLDERING OF LEADS. (SEE POWER PANEL WIRING DESTINATION LIST, PAGE 11-170.)
   - Remove two screws (1) and cable clamps (2) from backshell (3). Use No. 1 cross tip screwdriver.
   - Remove backshell (3), connector sleeve (4), compression sleeve (5), and bushing seal (6) from connector base (7). Use two slip joint pliers.

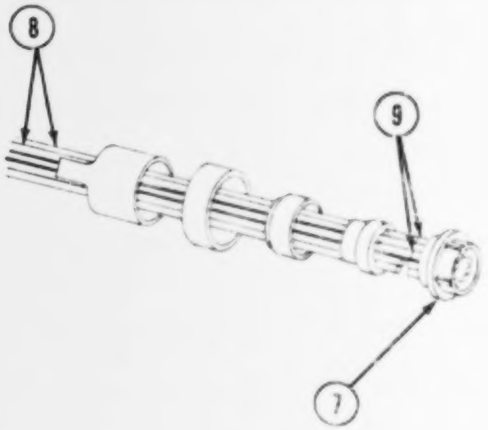




- Insert leads (8) through new backshell (3), new connector sleeve (4), new compression sleeve (5), and new bushing seal (6). (See Power Panel Wiring Destination List, Page 11-170.)



3. SOLDER LEADS (8) AT TERMINALS (9) ON P36 CONNECTOR BASE (7). (SEE TM 55-1500-323-25 AND POWER PANEL WIRING DESTINATION LIST, PAGE 11-170.)



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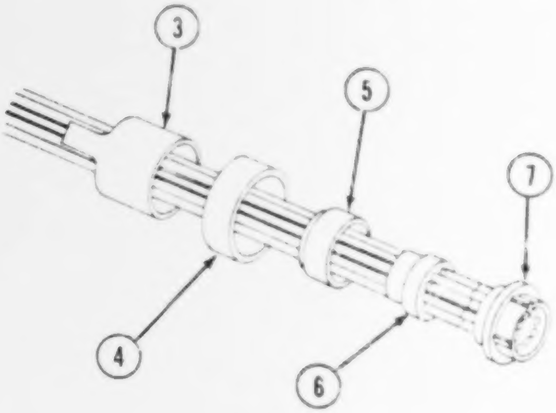
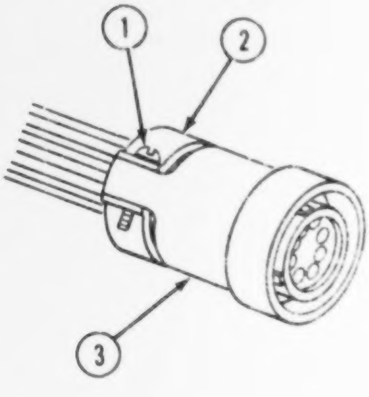
4. ASSEMBLE CONNECTOR P36
   - Assemble bushing seal (6), compression sleeve (5), connector sleeve (4), and backshell (3) on connector base (7). Use two slip joint pliers.



   - Install two cable clamps (2) and screws (1) on backshell (3). Use No. 1 cross tip screwdriver.



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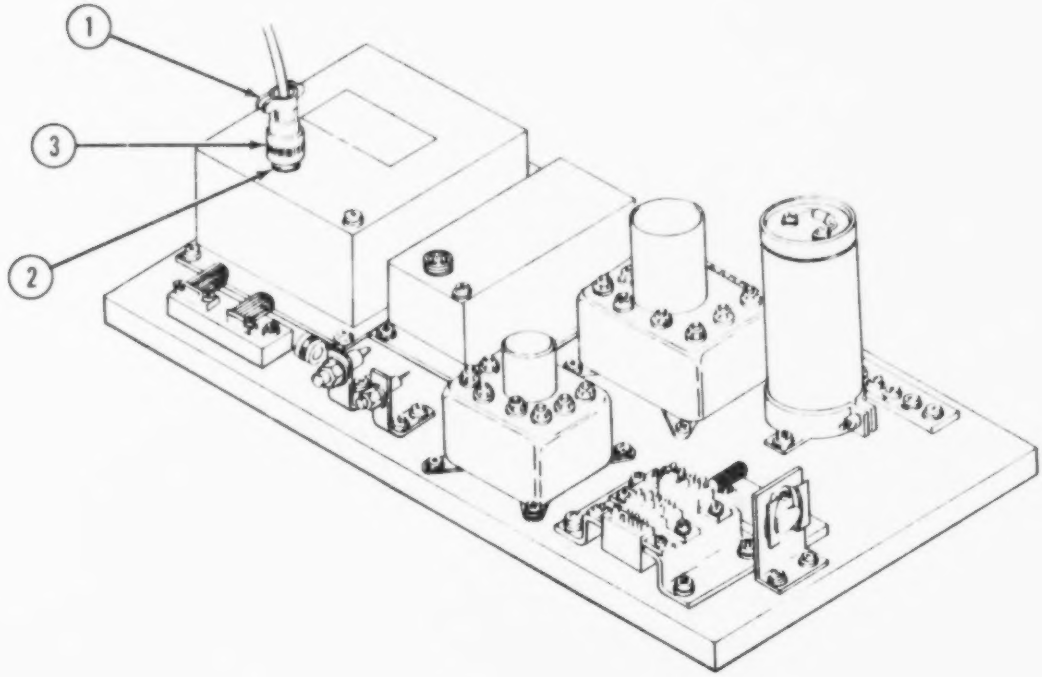
AR. POWER PANEL ASSEMBLY WIRING INSTALLATION — Continued

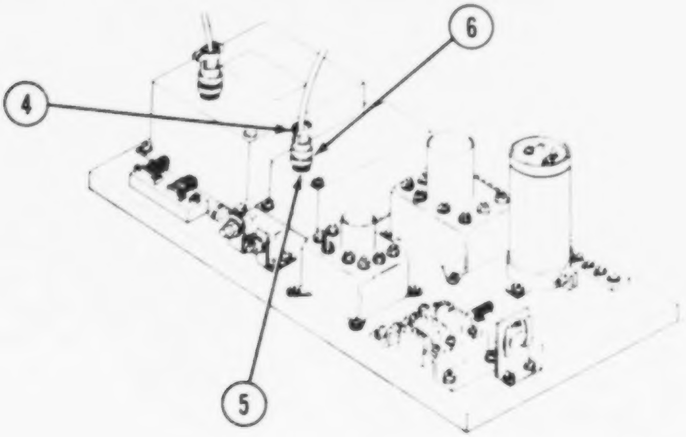
5. INSTALL LEADS ON GROUND BUS. (SEE POWER PANEL ASSEMBLY, PAGE 11-154.)
6. INSTALL LEADS ON VOLTAGE REGULATOR VR1. (SEE POWER PANEL ASSEMBLY, PAGE 11-150.)
7. INSTALL DIODE D7 ON DIODE MOUNTING BRACKET. (SEE POWER PANEL ASSEMBLY, PAGE 11-144.)
8. INSTALL DIODE D2 ON DIODE MOUNTING BRACKET. (SEE POWER PANEL ASSEMBLY, PAGE 11-142.)
9. INSTALL RESISTOR R5 ON CAPACITOR C1. (SEE POWER PANEL ASSEMBLY, PAGE 11-136.)
10. SOLDER LEADS AT RESISTORS R1, R2, R3, AND R4. (SEE POWER PANEL ASSEMBLY, PAGE 11-131.)
11. SOLDER LEADS AT RELAYS K3, K4, AND K5. (SEE POWER PANEL ASSEMBLY, PAGE 11-127.)
12. INSTALL LEADS ON RELAY K2. (SEE POWER PANEL ASSEMBLY, PAGE 11-125.)
13. INSTALL LEADS ON RELAY K1. (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)
14. CONNECT CONNECTOR P57 (1) TO RECEPTACLE J57 (2), AND TURN CONNECTOR SLEEVE (3).



15. CONNECT CONNECTOR P36 (4) TO RECEPTACLE J36 (5), AND TURN CONNECTOR SLEEVE (6).

16. CONNECT POWER PANEL EXTERNAL WIRING TO DISPENSER. (SEE POWER PANEL ASSEMBLY, PAGE 11-160.)

17. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE POWER PANEL ASSEMBLY, PAGE 11-122.)



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform Dispenser Controls Readiness Test. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

END OF TASK

11-10 POWER MODULE PS-1 ADJUSTMENT

DESCRIPTION

This task covers: VOLTAGE ADJUSTMENT (p 11-179)

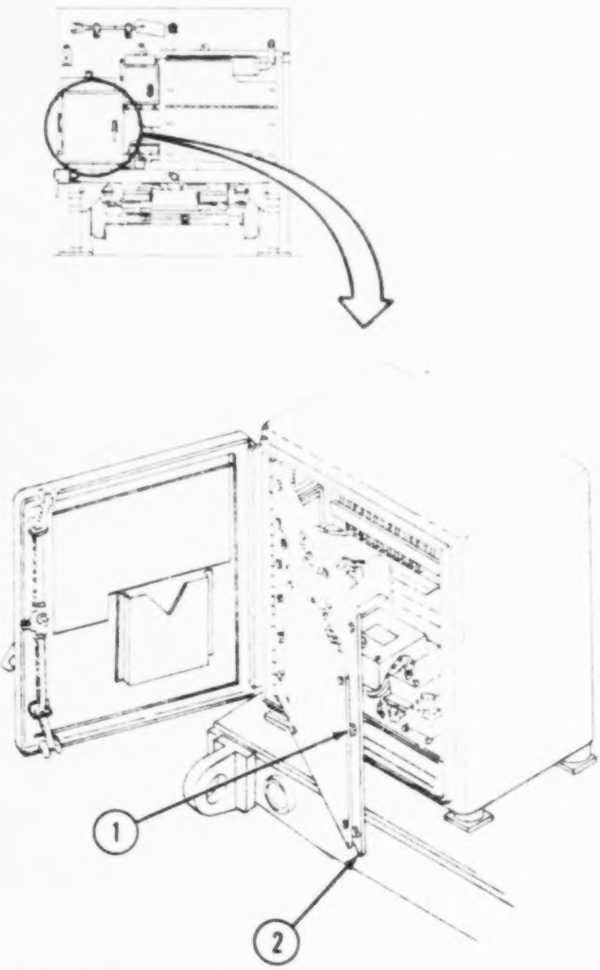
INITIAL SETUP

Tools and Special Tools:
General mechanic's tool kit
 5180-00-177-7033:
  3/8 inch flat tip screwdriver
  1/4 inch flat tip screwdriver
Multimeter 6625-00-999-6282
Jeweler's screwdriver set 5120-00-288-8739

Personnel Required:
Electrical repairer

References:
TM 9-1095-205-10
TM 9-1095-205-20

VOLTAGE ADJUSTMENT



NOTE

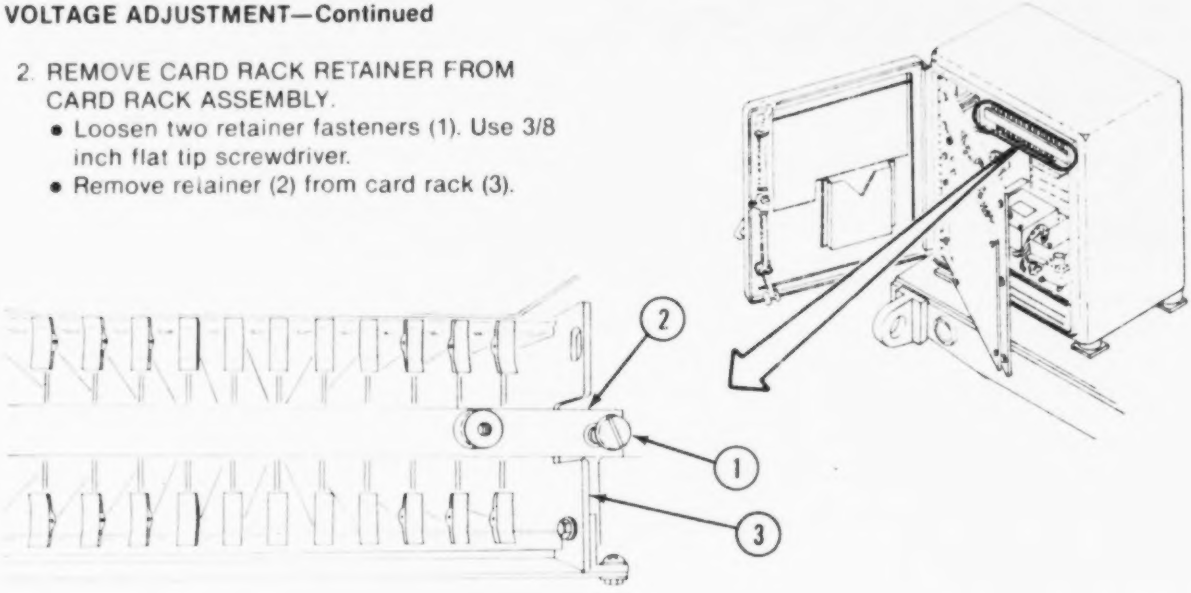
PRELIMINARY PROCEDURES:
Connect Operator Control Box. (See TM 9-1095-205-10.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Loosen three fasteners (1), and open BACP (2). Use 3/8 inch flat tip screwdriver.

GO TO NEXT PAGE

VOLTAGE ADJUSTMENT—Continued

2. REMOVE CARD RACK RETAINER FROM CARD RACK ASSEMBLY.
   - Loosen two retainer fasteners (1). Use 3/8 inch flat tip screwdriver.
   - Remove retainer (2) from card rack (3).

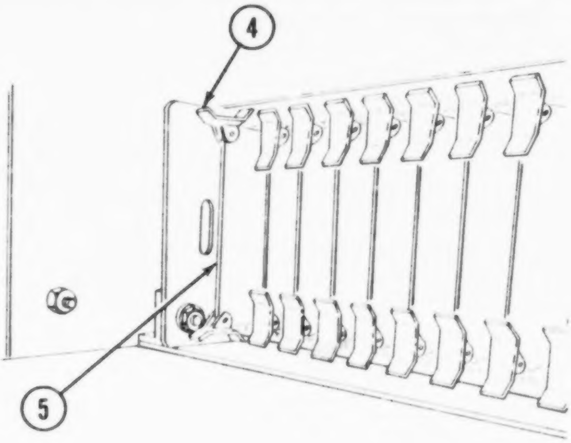


NOTE

There are 16 circuit cards in card rack assembly. They all release the same way.

• • • •

To perform Voltage Adjustment, you do not have to remove circuit cards from card rack assembly.



3. RELEASE 16 CIRCUIT CARDS FROM CARD RACK ASSEMBLY.
   - Push top and bottom ejection clips (4), and release circuit card (5).
   - Repeat above releasing step for other 15 circuit cards.

4. TURN ON MAIN POWER CIRCUIT BREAKER S2 ON BACP. (SEE TM 9-1095-205-10.)

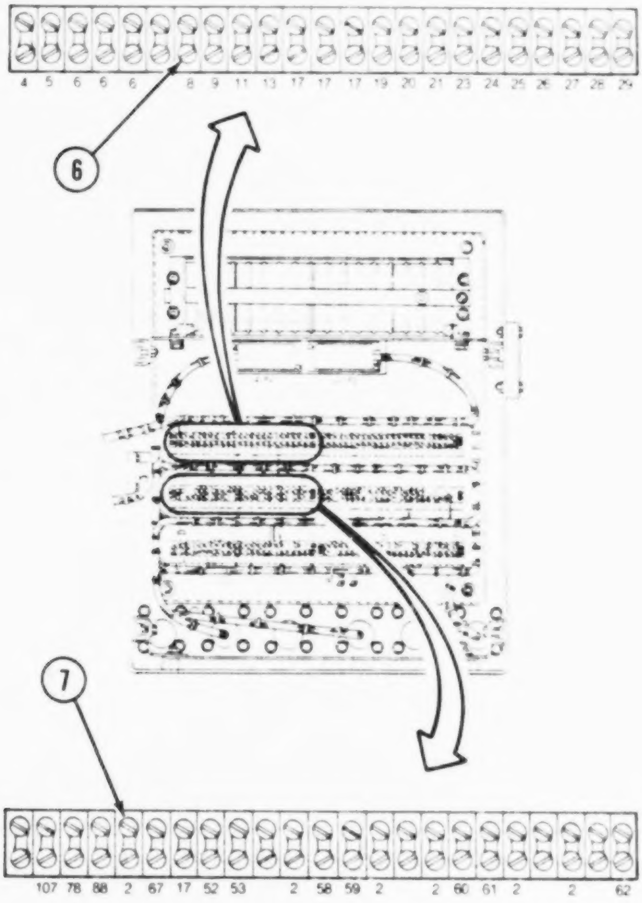
5. TURN ON ELEC POWER CIRCUIT BREAKER S3 ON BACP. (SEE TM 9-1095-205-10.)

6. TURN ON GAUGES CIRCUIT BREAKER S4 ON BACP. (SEE TM 9-1095-205-10.)

7. TURN ON SENSOR/VALVES CIRCUIT BREAKER S5 ON BACP. (SEE TM 9-1095-205-10.)

8. LIFT AND SET MASTER POWER SWITCH ON MAIN CONTROL PANEL (MCP) TO ON. (SEE TM 9-1095-205-10.)

9. MEASURE SYSTEM VOLTAGE AT TERMINAL BOARD 1TB, PARTS 1 AND 3.
   - Set multimeter to 50 V dc.
   - Position multimeter (+) probe on Terminal Board 1TB, Part 1, Terminal 8 (6).
   - Position multimeter (–) probe on Terminal Board 1TB, Part 3, Terminal 2 (7).
   - Read voltage. Multimeter should read at least 24 V dc.
   - If voltage is not correct, service storage batteries. (See TM 9-1095-205-20.)
   - If voltage is correct, measure Power Module PS-1 voltage at Terminal Board 1TB, Parts 1 and 3. (See next step.)



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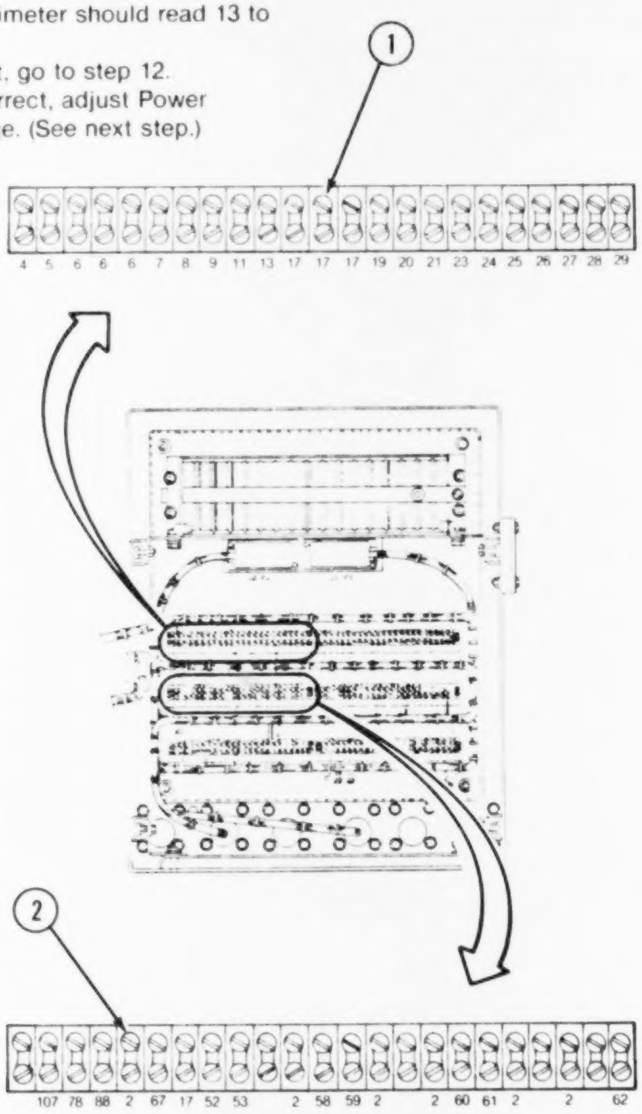
VOLTAGE ADJUSTMENT—Continued

10. MEASURE POWER MODULE PS-1 VOLTAGE AT TERMINAL BOARD 1TB, PARTS 1 AND 3.
    - Set multimeter to 50 V dc.
    - Position multimeter (+) probe on Terminal Board 1TB, Part 1, Terminal 17 (1).
    - Position multimeter (−) probe on Terminal Board 1TB, Part 3, Terminal 2 (2).
    - Read voltage. Multimeter should read 13 to 14 V dc.
    - If voltage is correct, go to step 12.
    - If voltage is not correct, adjust Power Module PS-1 voltage. (See next step.)



11. ADJUST POWER MODULE PS-1 VOLTAGE.
    - Remove cap (3) from PS-1 adjusting screw (4). Use 1/4 inch flat tip screwdriver.
    - Position multimeter (+) probe on Terminal Board 1TB, Part 1, Terminal 17 (1).
    - Position multimeter (−) probe on bus bar ground screw (5).
    - Turn PS-1 adjusting screw (4) until multimeter reads 13 to 14 V dc. Use jeweler's flat tip screwdriver.

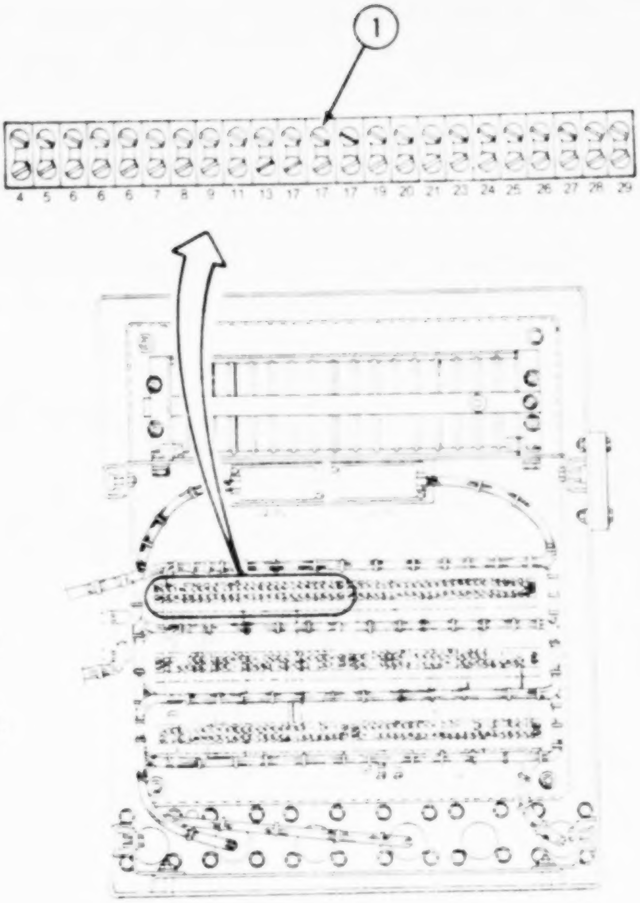
12. LIFT AND SET MASTER POWER SWITCH ON MCP TO DOWN (OFF) POSITION. (SEE TM 9-1095-205-10.)

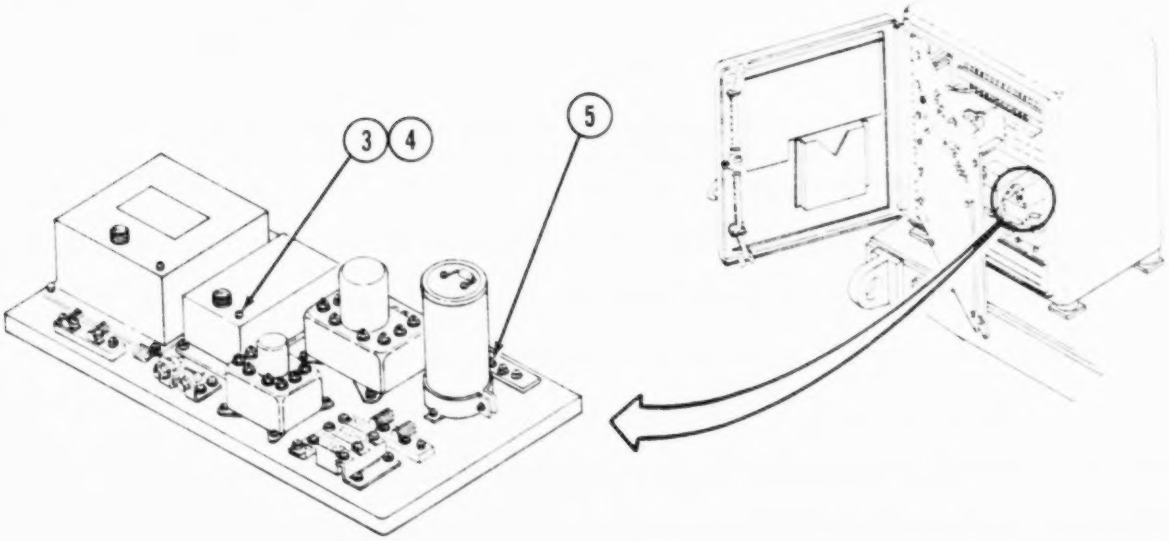
13. TURN OFF SENSOR/VALVES CIRCUIT BREAKER S5 ON BACP. (See TM 9-1095-205-10.)

14. TURN OFF GAUGES CIRCUIT BREAKER S4 ON BACP. (SEE TM 9-1095-205-10.)

15. TURN OFF ELEC POWER CIRCUIT BREAKER S3 ON BACP. (SEE TM 9-1095-205-10.)

16. TURN OFF MAIN POWER CIRCUIT BREAKER S2 ON BACP. (SEE TM 9-1095-205-10.)





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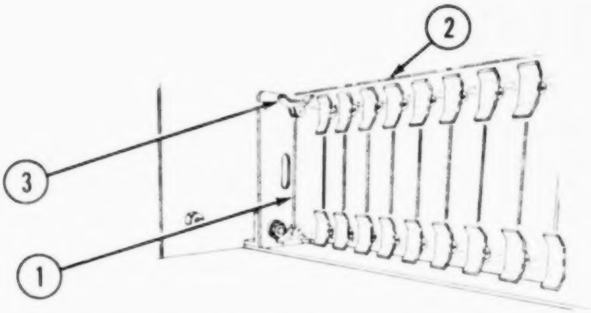
VOLTAGE ADJUSTMENT—Continued

NOTE

All circuit cards secure in card rack assembly the same way.

17. SECURE 16 CIRCUIT CARDS IN CARD RACK ASSEMBLY.
    - Push circuit card (1) in card rack (2), and press top and bottom ejection clips (3) to secure circuit card.
    - Repeat above securing step for other 15 circuit cards.



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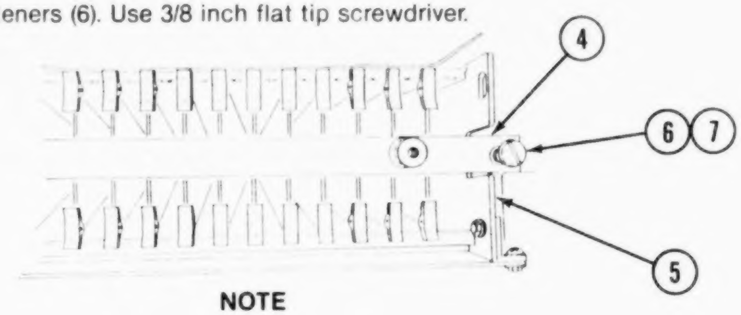
18. INSTALL CARD RACK RETAINER ON CARD RACK ASSEMBLY.
    - Position retainer (4) on card rack (5), with two retainer fasteners (6) and card rack mounting holes (7) alined.
    - Tighten two retainer fasteners (6). Use 3/8 inch flat tip screwdriver.



NOTE

With RUN/TEST switch in TEST, engine and all dispenser operations will be simulated electronically through the B.I.T.E. system. Indicators will function as if engine and dispenser were operating.

19. SET RUN/TEST SWITCH S1 ON BACP TO TEST. (SEE TM 9-1095-205-10.)

20. TURN ON MAIN POWER CIRCUIT BREAKER S2 ON BACP. (SEE TM 9-1095-205-10.)

21. TURN ON ELEC POWER CIRCUIT BREAKER S3 ON BACP. (SEE TM 9-1095-205-10.)

22. TURN ON GAUGES CIRCUIT BREAKER S4 ON BACP. (SEE TM 9-1095-205-10.)

23. TURN ON SENSOR/VALVES CIRCUIT BREAKER S5 ON BACP. (SEE TM 9-1095-205-10.)

24. LIFT AND SET MASTER POWER SWITCH ON MCP TO ON. (SEE TM 9-1095-205-10.)

25. MOVE AND HOLD ENGINE START/FUEL ON/OFF SWITCH ON OPERATOR CONTROL BOX (OCB) TO START. (SEE TM 9-1095-205-10.) HOLD IN START UNTIL ENGINE RUNNING LIGHT ON OCB COMES ON. (SEE TM 9-1095-205-10.)

26. SET PATTERN SELECTOR SWITCH ON OCB TO J. (SEE TM 9-1095-205-10.)

27. SET MODE SELECT SWITCH ON OCB TO DISPENSE. (SEE TM 9-1095-205-10.)

28. SET LEFT MAGAZINE DENSITY SWITCH ON OCB TO MAX. (SEE TM 9-1095-205-10.)

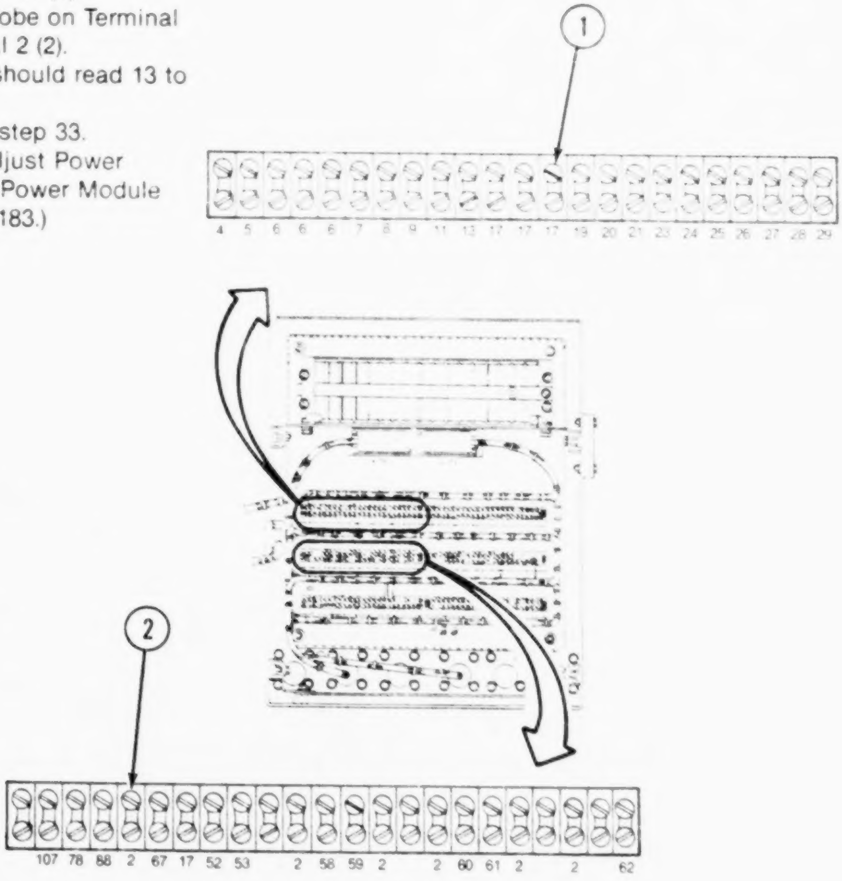
29. SET RIGHT MAGAZINE DENSITY SWITCH ON OCB TO MAX. (SEE TM 9-1095-205-10.)

30. LIFT AND SET LEFT MAGAZINE FIRE/OFF SWITCH ON OCB TO FIRE. (SEE TM 9-1095-205-10.)

31. LIFT AND SET RIGHT MAGAZINE FIRE/OFF SWITCH ON OCB TO FIRE. (SEE TM 9-1095-205-10.)

---

32. MEASURE POWER MODULE PS-1 VOLTAGE AT TERMINAL BOARD 1TB, PARTS 1 AND 3.
    - Set multimeter to 50 V dc.
    - Position multimeter (+) probe on Terminal Board 1TB, Part 1, Terminal 17 (1).
    - Position multimeter (−) probe on Terminal Board 1TB, Part 3, Terminal 2 (2).
    - Read voltage. Multimeter should read 13 to 14 V dc.
    - If voltage is correct, go to step 33.
    - If voltage is not correct, adjust Power Module PS-1 voltage. (See Power Module PS-1 Adjustment, Page 11-183.)



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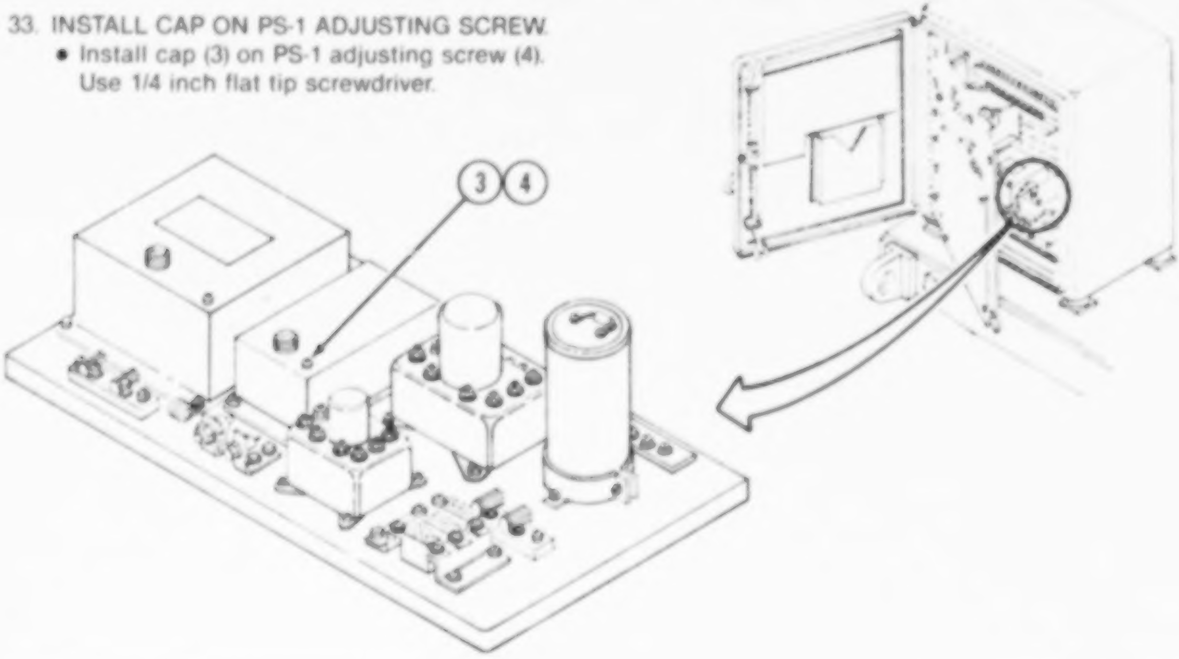
VOLTAGE ADJUSTMENT—Continued

33. INSTALL CAP ON PS-1 ADJUSTING SCREW.
    - Install cap (3) on PS-1 adjusting screw (4). Use 1/4 inch flat tip screwdriver.



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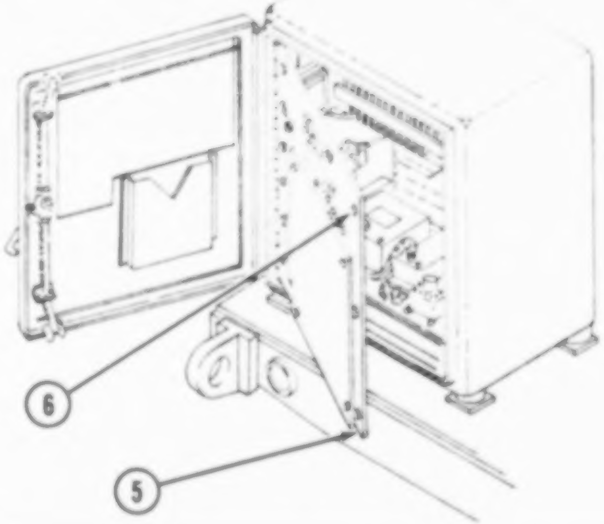
34. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP).
    - Close BACP (5), and tighten three fasteners (6). Use 3/8 inch flat tip screwdriver.

NOTE

FOLLOW-ON MAINTENANCE:
Shut Down Dispenser. (See TM 9-1095-205-10.)



END OF TASK

11-11 POWER MODULE PS-2 ADJUSTMENT

DESCRIPTION

This task covers: VOLTAGE ADJUSTMENT (p 11-187)

INITIAL SETUP

Tools and Special Tools:
General mechanic's tool kit
5180-00-177-7033:
3/8 inch flat tip screwdriver
1/4 inch flat tip screwdriver
Multimeter 6625-00-999-6282
Jeweler's screwdriver set 5120-00-288-8739

Personnel Required:
Electrical repairer

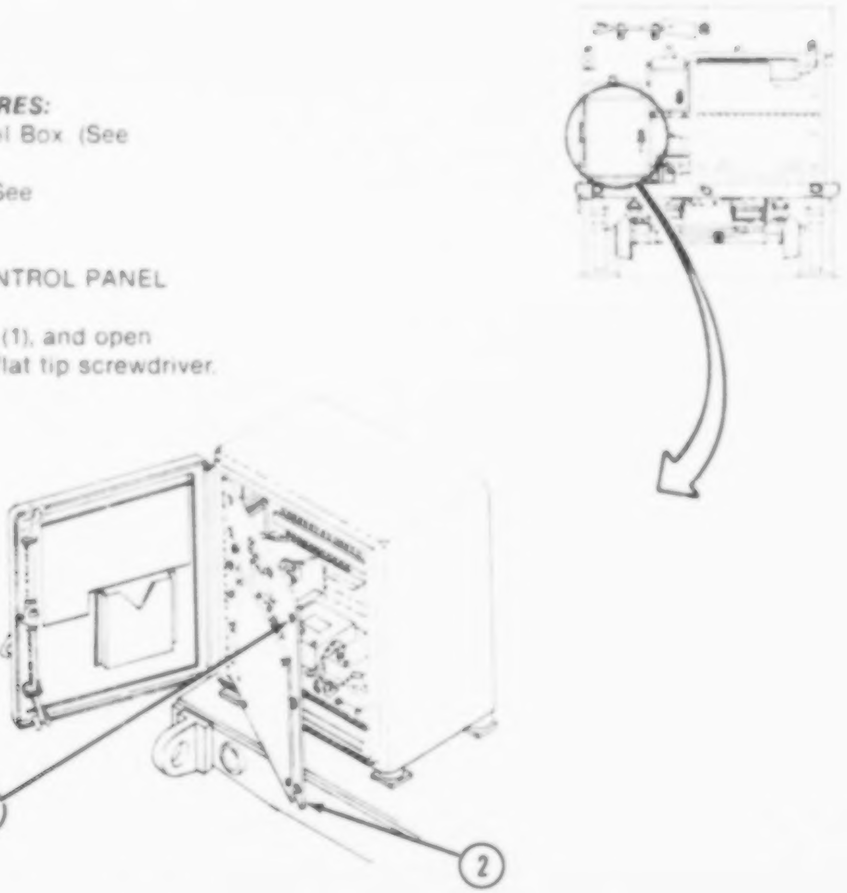
References:
TM 9-1095-205-10
TM 9-1095-205-20

VOLTAGE ADJUSTMENT

NOTE

PRELIMINARY PROCEDURES:
Connect Operator Control Box. (See TM 9-1095-205-10.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Loosen three fasteners (1), and open BACP (2). Use 3/8 inch flat tip screwdriver.



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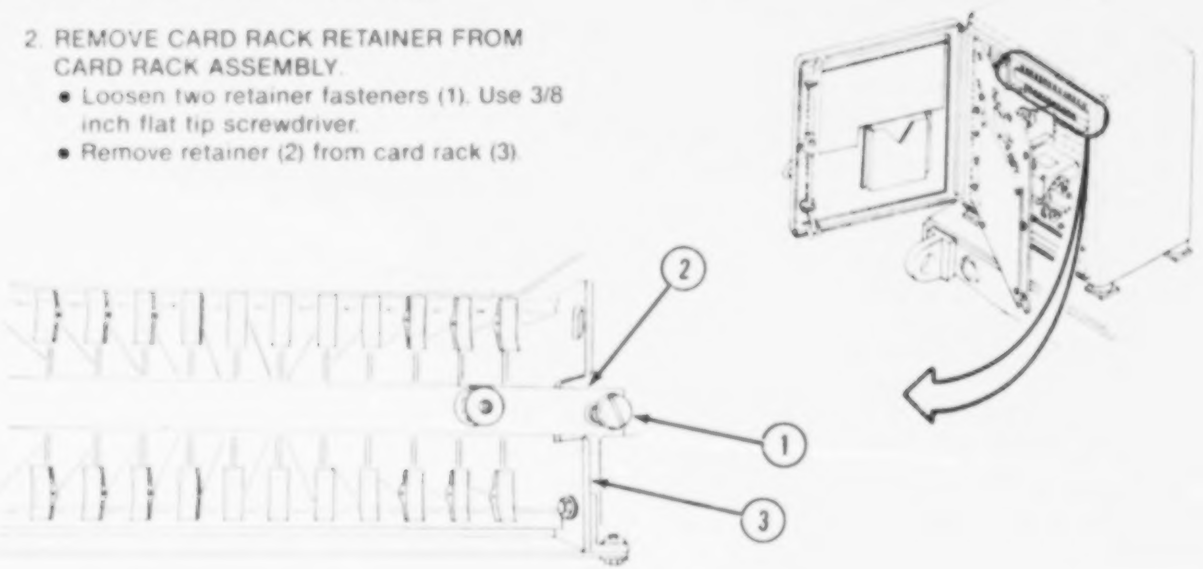
VOLTAGE ADJUSTMENT—Continued

2. REMOVE CARD RACK RETAINER FROM CARD RACK ASSEMBLY.
   - Loosen two retainer fasteners (1). Use 3/8 inch flat tip screwdriver.
   - Remove retainer (2) from card rack (3).

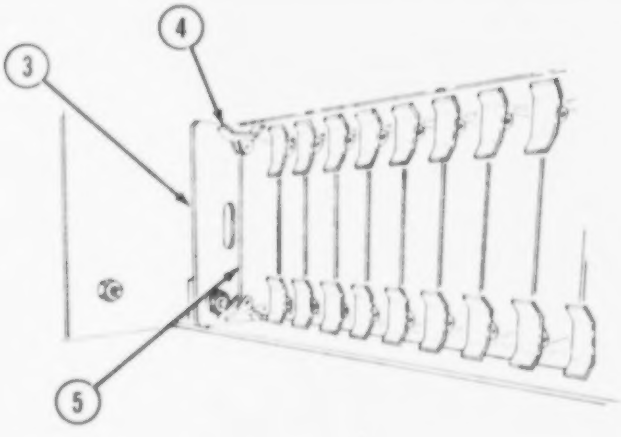


NOTE

There are 16 circuit cards in card rack assembly. They all release the same way.

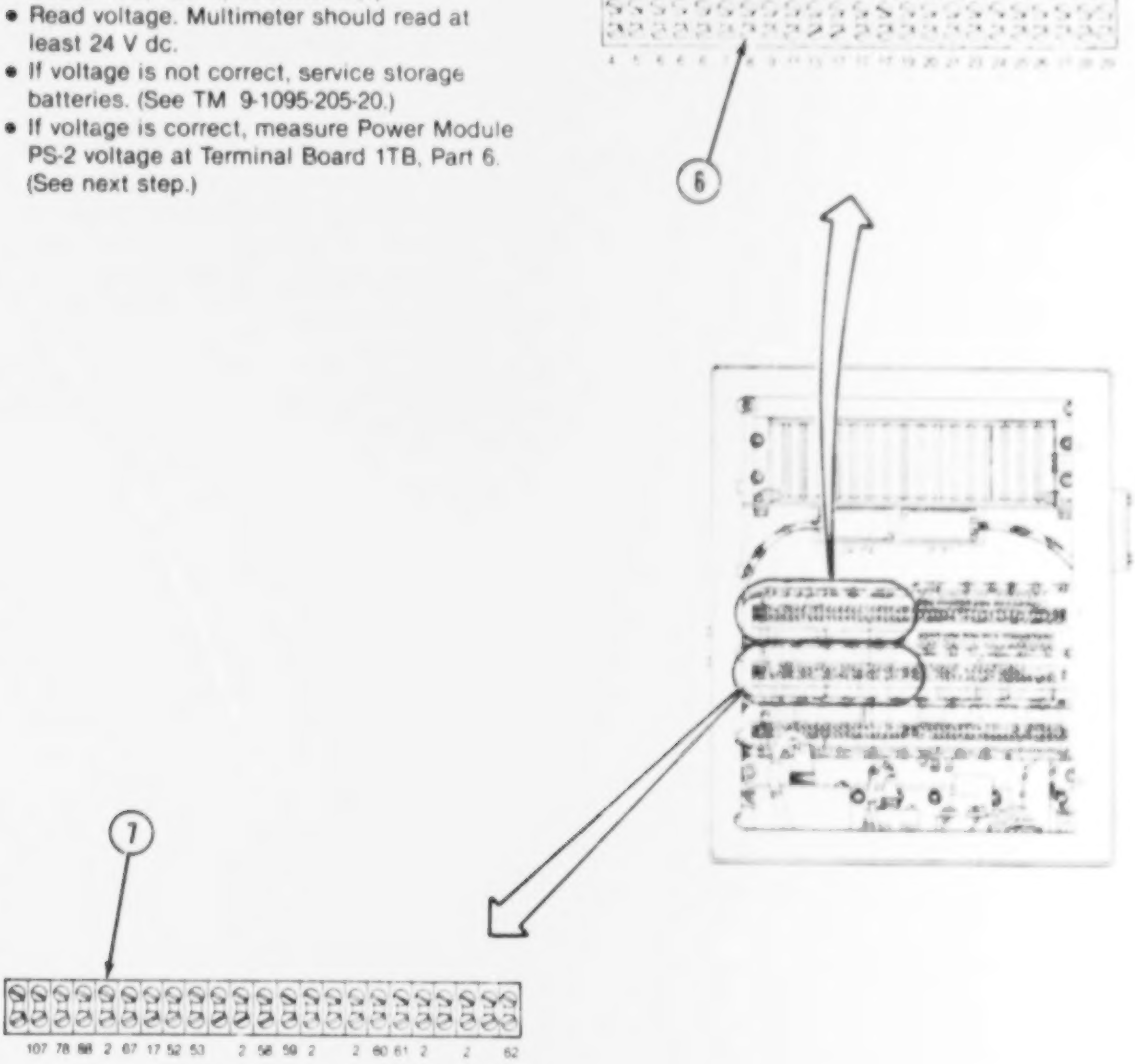
• • • •

To perform Voltage Adjustment, you do not have to remove circuit cards from card rack assembly.



3. RELEASE 16 CIRCUIT CARDS FROM CARD RACK ASSEMBLY.
   - Push top and bottom ejection clips (4), and release circuit card (5) from card rack (3).
   - Repeat above releasing step for other 15 circuit cards.
4. TURN ON MAIN POWER CIRCUIT BREAKER S2 ON BACP. (SEE TM 9-1095-205-10.)
5. TURN ON ELEC POWER CIRCUIT BREAKER S3 ON BACP. (SEE TM 9-1095-205-10.)
6. TURN ON GAUGES CIRCUIT BREAKER S4 ON BACP. (SEE TM 9-1095-205-10.)
7. TURN ON SENSOR/VALVES CIRCUIT BREAKER S5 ON BACP. (SEE TM 9-1095-205-10.)
8. LIFT AND SET MASTER POWER SWITCH ON MAIN CONTROL PANEL (MCP) TO ON. (SEE TM 9-1095-205-10.)

9. MEASURE SYSTEM VOLTAGE AT TERMINAL BOARD 1TB, PARTS 1 AND 3.
   - Set multimeter to 50 V dc.
   - Position multimeter (+) probe on Terminal Board 1TB, Part 1, Terminal 8 (6).
   - Position multimeter (−) probe on Terminal Board 1TB, Part 3, Terminal 2 (7).
   - Read voltage. Multimeter should read at least 24 V dc.
   - If voltage is not correct, service storage batteries. (See TM 9-1095-205-20.)
   - If voltage is correct, measure Power Module PS-2 voltage at Terminal Board 1TB, Part 6. (See next step.)



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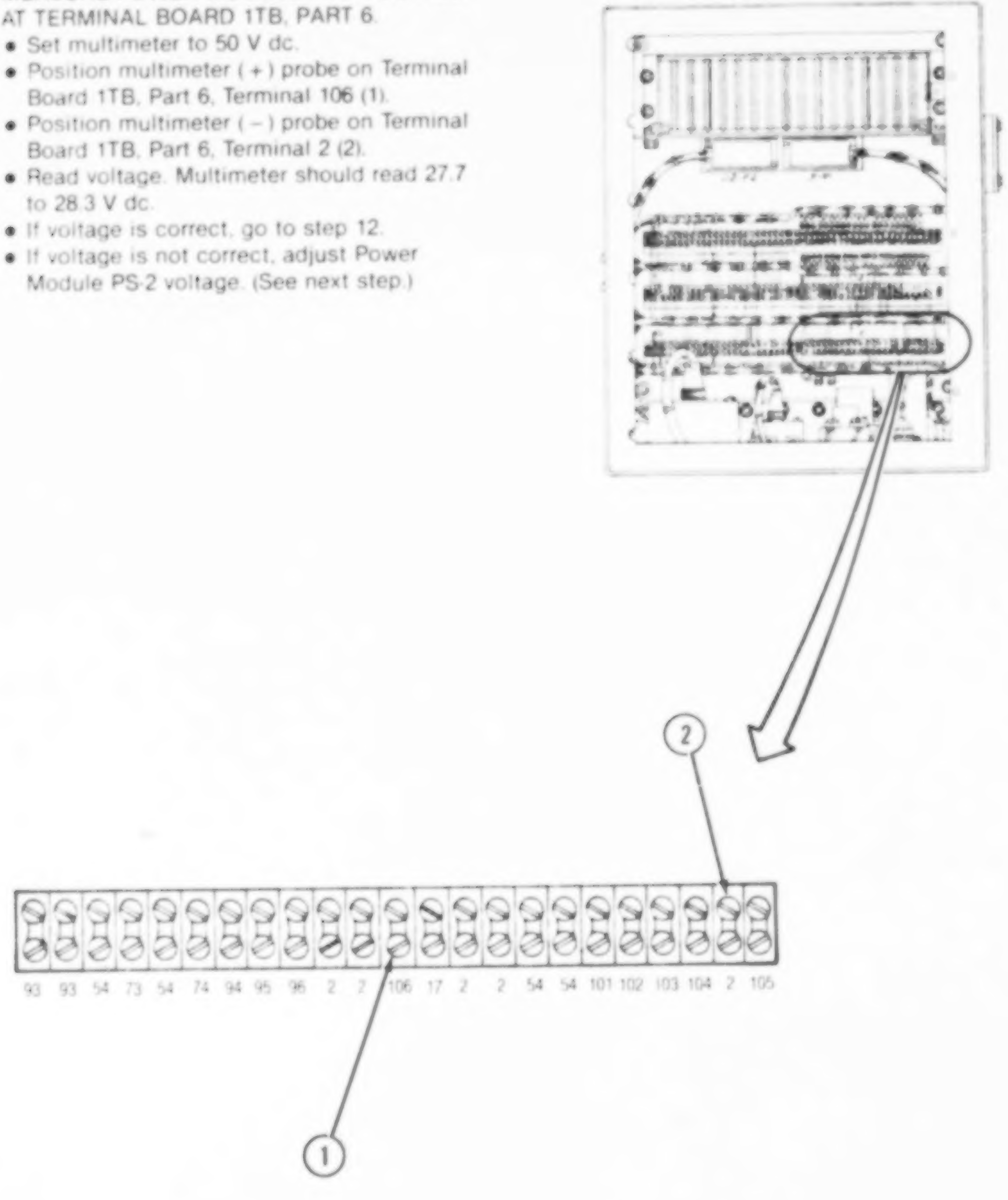
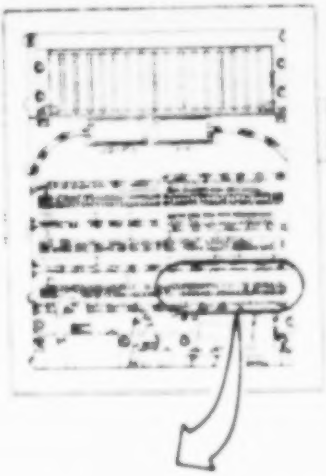
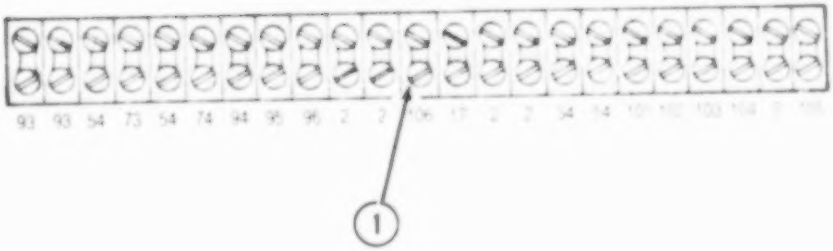
VOLTAGE ADJUSTMENT—Continued

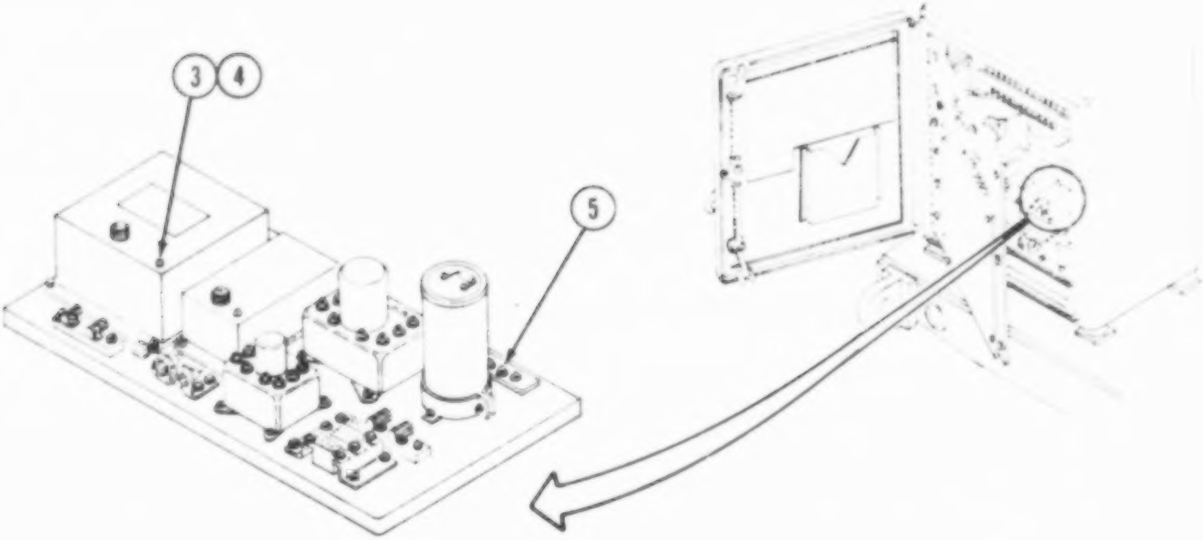
10. MEASURE POWER MODULE PS-2 VOLTAGE AT TERMINAL BOARD 1TB, PART 6.
    - Set multimeter to 50 V dc.
    - Position multimeter (+) probe on Terminal Board 1TB, Part 6, Terminal 106 (1).
    - Position multimeter (−) probe on Terminal Board 1TB, Part 6, Terminal 2 (2).
    - Read voltage. Multimeter should read 27.7 to 28.3 V dc.
    - If voltage is correct, go to step 12.
    - If voltage is not correct, adjust Power Module PS-2 voltage. (See next step.)



11. ADJUST POWER MODULE PS-2 VOLTAGE.
    - Remove cap (3) from PS-2 adjusting screw (4). Use 1/4 inch flat tip screwdriver.
    - Position multimeter (+) probe on Terminal Board 1TB, Part 6, Terminal 106 (1).
    - Position multimeter (−) probe on bus bar ground screw (5).
    - Turn PS-2 adjusting screw (4) until multimeter reads 27.7 to 28.3 V dc. Use jeweler's flat tip screwdriver.







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VOLTAGE ADJUSTMENT—Continued

12. LIFT AND SET MASTER POWER SWITCH ON MCP TO DOWN (OFF) POSITION. (SEE TM 9-1095-205-10.)

13. TURN OFF SENSOR/VALVES CIRCUIT BREAKER S5 ON BACP. (See TM 9-1095-205-10.)

14. TURN OFF GAUGES CIRCUIT BREAKER S4 ON BACP. (SEE TM 9-1095-205-10.)

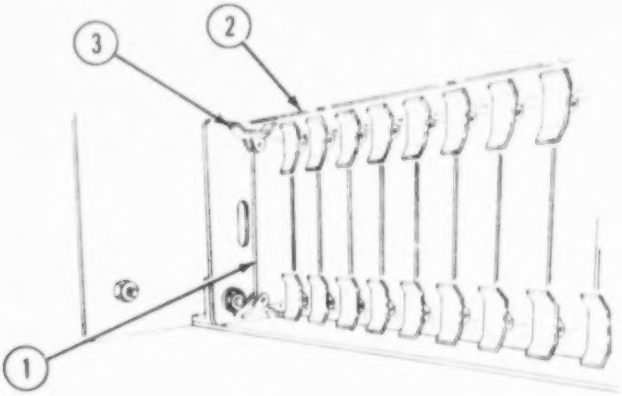
15. TURN OFF ELEC POWER CIRCUIT BREAKER S3 ON BACP. (SEE TM 9-1095-205-10.)

16. TURN OFF MAIN POWER CIRCUIT BREAKER S2 ON BACP. (SEE TM 9-1095-205-10.)

NOTE

All circuit cards secure in card rack assembly the same way.

17. SECURE 16 CIRCUIT CARDS IN CARD RACK ASSEMBLY.
    - Push circuit card (1) in card rack (2), and press top and bottom ejection clips (3) to secure circuit card.
    - Repeat above securing step for other 15 circuit cards.



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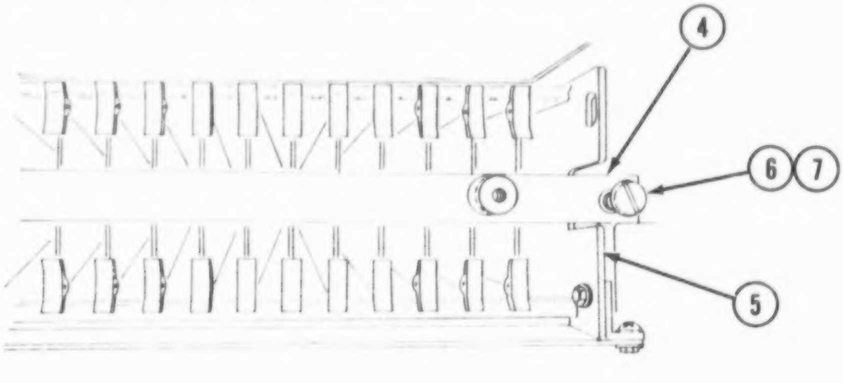
18. INSTALL CARD RACK RETAINER ON CARD RACK ASSEMBLY.
    - Position retainer (4) on card rack (5), with two retainer fasteners (6) and card rack mounting holes (7) alined.
    - Tighten two retainer fasteners (6). Use 3/8 inch flat tip screwdriver.



NOTE

With RUN/TEST switch in TEST, engine and all dispenser operations will be simulated electronically through the B.I.T.E. system. Indicators will function as if engine and dispenser were operating.

19. SET RUN/TEST SWITCH S1 ON BACP TO TEST. (SEE TM 9-1095-205-10.)
20. TURN ON MAIN POWER CIRCUIT BREAKER S2 ON BACP. (SEE TM 9-1095-205-10.)
21. TURN ON ELEC POWER CIRCUIT BREAKER S3 ON BACP. (SEE TM 9-1095-205-10.)
22. TURN ON GAUGES CIRCUIT BREAKER S4 ON BACP. (SEE TM 9-1095-205-10.)
23. TURN ON SENSOR/VALVES CIRCUIT BREAKER S5 ON BACP. (SEE TM 9-1095-205-10.)
24. LIFT AND SET MASTER POWER SWITCH ON MCP TO ON. (SEE TM 9-1095-205-10.)
25. MOVE AND HOLD ENGINE START/FUEL ON/OFF SWITCH ON OPERATOR CONTROL BOX (OCB) TO START. (SEE TM 9-1095-205-10.) HOLD TO START UNTIL ENGINE RUNNING LIGHT ON OCB COMES ON. (SEE TM 9-1095-205-10.)
26. SET PATTERN SELECTOR SWITCH ON OCB TO J. (SEE TM 9-1095-205-10.)
27. SET MODE SELECT SWITCH ON OCB TO DISPENSE. (SEE TM 9-1095-205-10.)
28. LIFT AND HOLD LAUNCHER START SWITCH ON OCB TO START UNTIL LAUNCHER READY LIGHT ON OCB COMES ON. (SEE TM 9-1095-205-10.)
29. SET LEFT MAGAZINE DENSITY SWITCH ON OCB TO MAX. (SEE TM 9-1095-205-10.)
30. SET RIGHT MAGAZINE DENSITY SWITCH ON OCB TO MAX. (SEE TM 9-1095-205-10.)
31. LIFT AND SET LEFT MAGAZINE FIRE/OFF SWITCH ON OCB TO FIRE. (SEE TM 9-1095-205-10.)
32. LIFT AND SET RIGHT MAGAZINE FIRE/OFF SWITCH ON OCB TO FIRE. (SEE TM 9-1095-205-10.)

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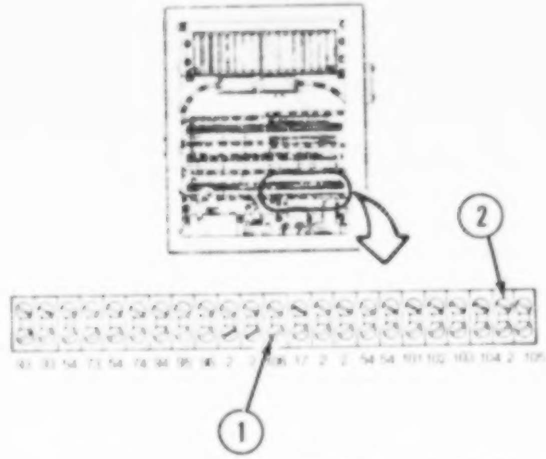
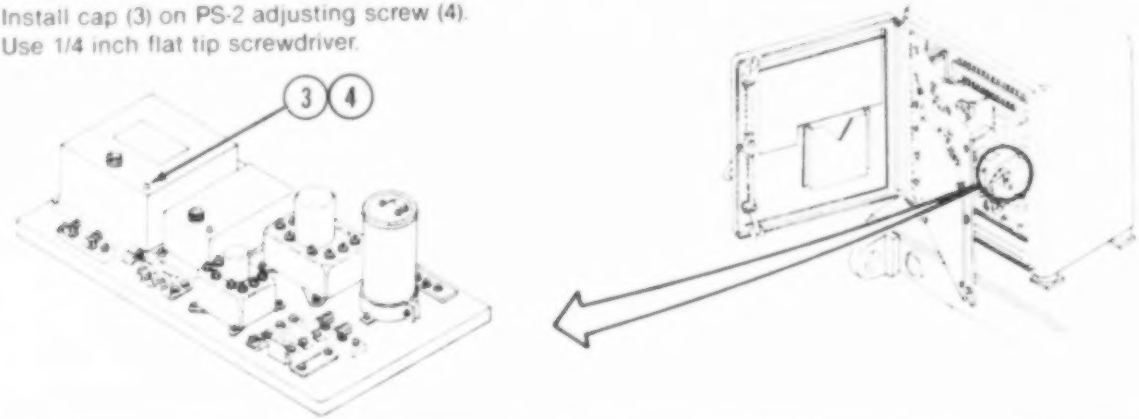
VOLTAGE ADJUSTMENT—Continued



33. MEASURE POWER MODULE PS-2 VOLTAGE AT TERMINAL BOARD 1TB, PART 6.
    - Set multimeter to 50 V dc.
    - Position multimeter (+) probe on Terminal Board 1TB, Part 6, Terminal 106 (1).
    - Position multimeter (–) probe on Terminal Board 1TB, Part 6, Terminal 2 (2).
    - Read voltage. Multimeter should read 27.7 to 28.3 V dc.
    - If voltage is not correct, adjust Power Module PS-2 voltage. (See Power Module PS-2 Adjustment, Page 11-191.)
    - If voltage is correct, install cap on PS-2 adjusting screw. (See next step.)

---

34. INSTALL CAP ON PS-2 ADJUSTING SCREW.
    - Install cap (3) on PS-2 adjusting screw (4). Use 1/4 inch flat tip screwdriver.



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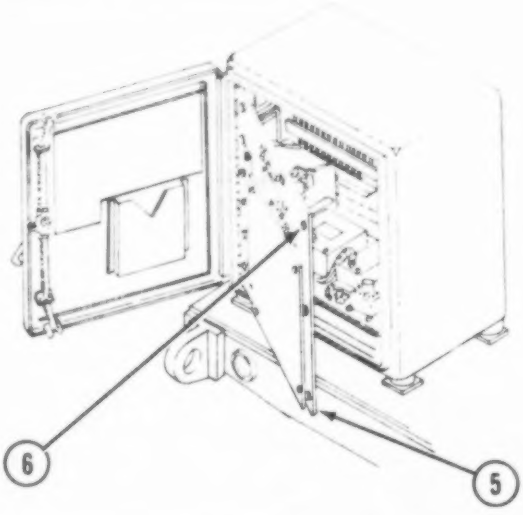
35. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP).
    - Close BACP (5), and tighten three fasteners (6). Use 3/8 inch flat tip screwdriver.

NOTE

FOLLOW-ON MAINTENANCE:
Shut Down Dispenser. (See TM 9-1095-205-10.)



END OF TASK

11-12 B.I.T.E. ALARM PANEL ASSEMBLY

DESCRIPTION

This task covers:

A. REMOVAL (p 11-196)
B. INSTALLATION (p 11-199)
C. CIRCUIT BREAKERS 1CB, 2CB, 3CB, AND 4CB REMOVAL (p 11-201)
D. CIRCUIT BREAKERS 1CB, 2CB, 3CB, AND 4CB INSTALLATION (p 11-202)
E. TOGGLE SWITCHES REMOVAL (p 11-202)
F. TOGGLE SWITCHES INSTALLATION (p 11-205)
G. PUSHBUTTON SWITCHES REMOVAL (p 11-208)
H. PUSHBUTTON SWITCHES INSTALLATION (p 11-209)
I. ROTARY SWITCH 14SW TERMINAL IDENTIFICATION (p11-212)
J. ROTARY SWITCH 14SW AND CAPACITOR C1 REMOVAL (p 11-216)
K. ROTARY SWITCH 14SW AND CAPACITOR C1 INSTALLATION (p 11-222)
L. ROTARY SWITCH SW28 WITH POINTER KNOB REMOVAL (p 11-225)
M. ROTARY SWITCH SW28 WITH POINTER KNOB INSTALLATION (p 11-226)
N. VARIABLE RESISTORS R5 AND R6 REMOVAL (p 11-228)
O. VARIABLE RESISTORS R5 AND R6 INSTALLATION (p 11-229)
P. LAMPS AND LAMPHOLDERS REMOVAL (p 11-231)
Q. LAMPS AND LAMPHOLDERS INSTALLATION (p 11-235)
R. CONNECTOR RECEPTACLES P16, P17, AND J17A REMOVAL (p 11-240)
S. CONNECTOR RECEPTACLES P16, P17, AND J17A INSTALLATION (p 11-244)
T. CIRCUIT CARD ASSEMBLY CCA17 REMOVAL (p 11-245)
U. CIRCUIT CARD ASSEMBLY CCA17 INSTALLATION (p 11-246)
V. DIODE BOARD REMOVAL (p 11-247)
W. DIODE BOARD INSTALLATION (p 11-248)
X. MILLIAMPERE METER AND METER SAVER REMOVAL (p 11-249)
Y. MILLIAMPERE METER AND METER SAVER INSTALLATION (p 11-250)
Z. SPARE INDICATOR LIGHT BRACKET REMOVAL (p 11-252)
AA. SPARE INDICATOR LIGHT BRACKET INSTALLATION (p 11-252)
AB. PANEL FASTENER REMOVAL (p 11-253)
AC. PANEL FASTENER INSTALLATION (p 11-254)
AD. B.I.T.E. ALARM PANEL INTERCONNECT WIRING REMOVAL (p 11-256)
AE. B.I.T.E. ALARM PANEL INTERCONNECT WIRING INSTALLATION (p 11-262)

INITIAL SETUP

Tools and Special Tools:

- General mechanic's tool kit
  - 5180-00-177-7033:
    - 3/32 inch hex key
    - Diagonal cutting pliers
    - Round nose pliers
    - 6 inch steel rule
    - No. 1 cross tip screwdriver
    - No. 2 cross tip screwdriver
    - 1/4 inch flat tip screwdriver

Tools and Special Tools — Continued:

- 3/8 inch flat tip screwdriver
- 3/8 inch socket
- 5/16 inch socket
- 5 inch extension
- Ratchet handle
- Ball peen hammer
- 1/2 inch open end wrench
- 5/16 inch open end wrench
- 9/16 inch open end wrench

GO TO NEXT PAGE

INITIAL SETUP — Continued

Tools and Special Tools — Continued:
3/8 inch box end wrench
3/8 inch open end wrench
1/4 inch open end wrench
Slip joint pliers
5/32 inch handled socket wrench 5120-00-585-2149
3/16 inch handled socket wrench 5120-00-224-2599
5/16 inch handled socket wrench 5120-00-224-2596
3/8 inch handled socket 5120-00-596-1263
Hand sledge hammer 5120-00-900-6097
Straight jaw plier wrench 5120-00-277-4244
Jeweler's screwdriver set 5120-00-288-8739
Fastener flaring tool (94222) 90-2824-11
Fastener back-up tool 5120-00-757-9799
Retainer tool (94222) 58-0-4586-13

Materials/Parts:
Lock washer (6) 5310-00-011-5549
Lock washer (12) 5310-00-616-3555
Lock washer (4) 5310-00-550-3715
Lock washer (3) 5310-00-579-5554
Lock washer (toggle switch)
Lock washer (pushbutton switch)
Lock washer (lampholder)
Lock washer (rotary switch)
Panel fastener 5305-00-570-0482
Cable tie 5975-00-727-5153
Scale plate (DEGREES)
Rags, Item 22, Appendix B

Personnel Required:
Electrical repairer
Helper

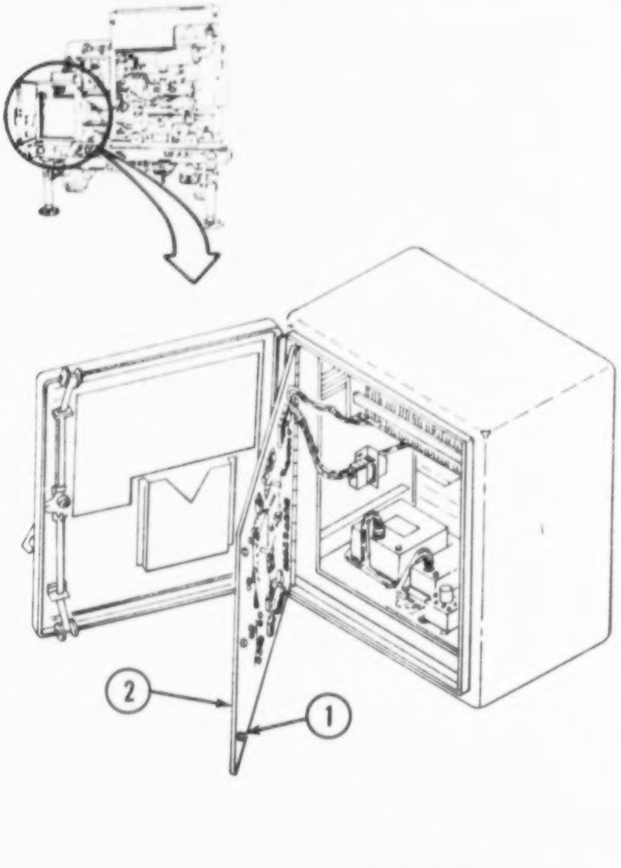
References:
TM 9-1095-205-10
TM 9-1095-205-20
TM 55-1500-323-25
FO-11 B.I.T.E. ALARM Panel Assembly Wiring Diagram

A. REMOVAL

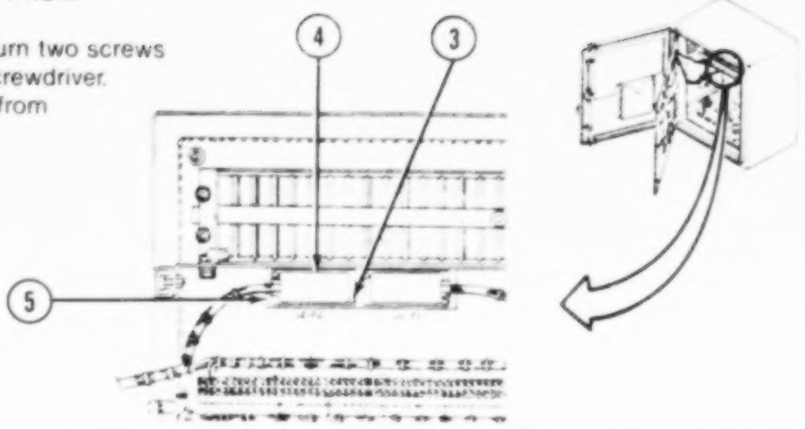
NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Loosen three panel fasteners (1), and open BACP (2). Use 3/8 inch flat tip screwdriver.



2. DISCONNECT CONNECTOR P2 FROM RECEPTACLE J2.
   - Push two screws (3) in, and turn two screws to left. Use 1/4 inch flat tip screwdriver.
   - Disconnect Connector P2 (4) from Receptacle J2 (5).



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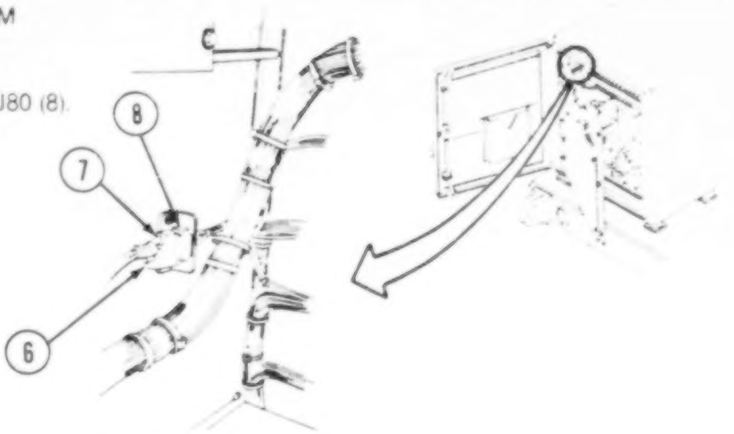
3. DISCONNECT CONNECTOR P80 FROM RECEPTACLE J80.
   - Turn jackscrew (6), and disconnect Connector P80 (7) from Receptacle J80 (8). Use 1/4 inch flat tip screwdriver.



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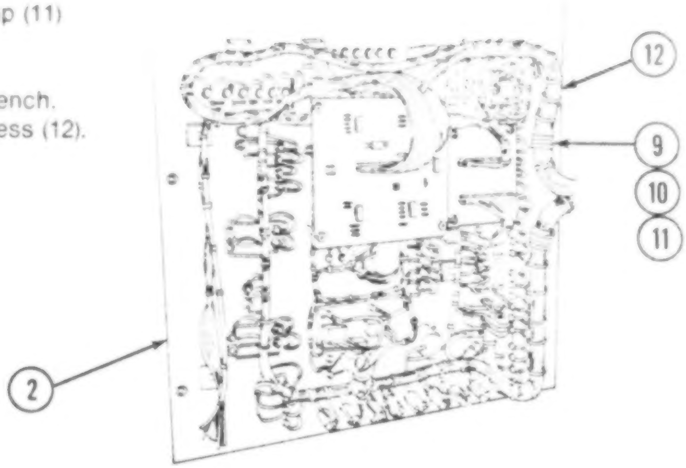
4. REMOVE WIRING HARNESS CLAMP FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Remove nut (9), screw (10), and clamp (11) with wiring harness (12) from panel assembly (2). Use No. 2 cross tip screwdriver and 3/8 inch box end wrench.
   - Remove clamp (11) from wiring harness (12).



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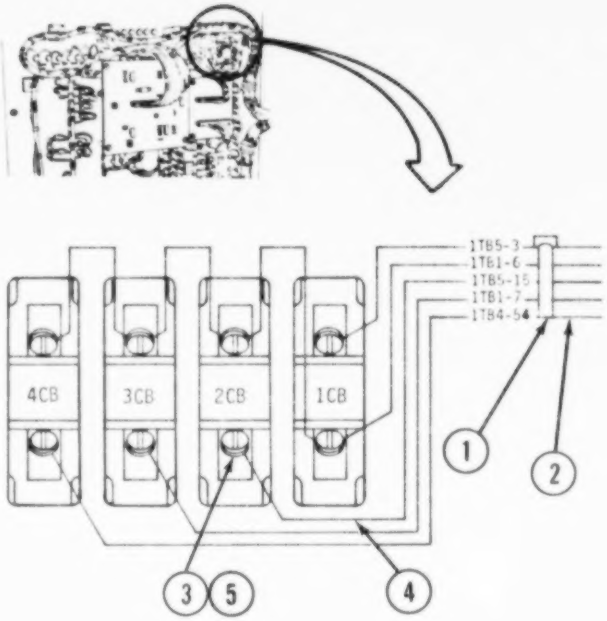
A. REMOVAL — Continued

NOTE

Leads are removed from four circuit breakers the same way. Step 4 shows Circuit Breaker 2CB.

5. REMOVE LEADS FROM FOUR CIRCUIT BREAKERS.
   - Cut and remove cable ties (1) as required from circuit breaker leads (2). Use diagonal cutting pliers.
   - Tag and mark leads. (See following Circuit Breaker Lead Identification Diagram.)
   - Remove screw (3) and Lead 15 (4) from Breaker 2CB terminal (5). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal step for other Breaker 2CB leads.
   - Repeat above removal steps for other three circuit breakers.



Circuit Breaker Lead Identification Diagram

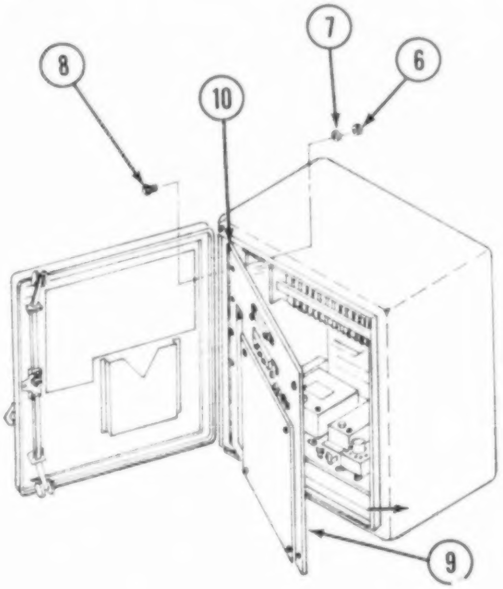
CAUTION

B.I.T.E. ALARM panel assembly parts can be damaged if panel assembly falls. Use helper when removing B.I.T.E. ALARM panel assembly.

• • • •

B.I.T.E. ALARM panel assembly parts can be damaged if not protected. Place panel face down on rags on workbench.

6. REMOVE B.I.T.E. ALARM PANEL ASSEMBLY FROM ELECTRICAL ENCLOSURE.
   - Remove six nuts (6), lock washers (7), screws (8), and panel assembly (9) from hinge (10). Use No. 2 cross tip screwdriver and 3/8 inch socket with ratchet handle. Use helper. Discard lock washers.

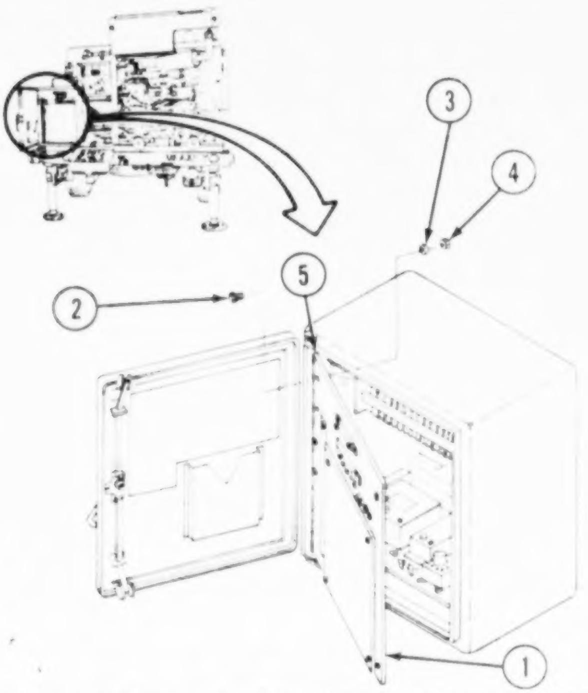


B. INSTALLATION

CAUTION

B.I.T.E. ALARM panel assembly parts can be damaged if panel assembly falls. Use helper when installing B.I.T.E. ALARM panel assembly.

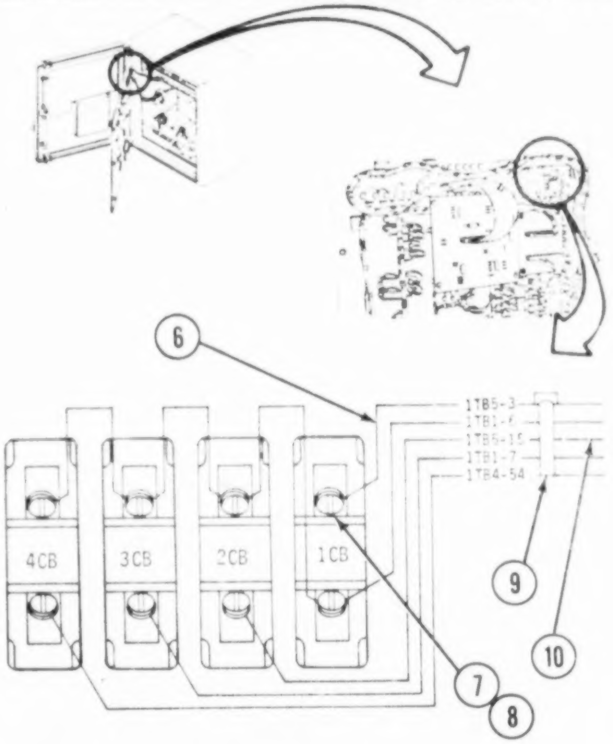
1. INSTALL B.I.T.E. ALARM PANEL ASSEMBLY ON ELECTRICAL ENCLOSURE.
    - Install panel assembly (1), six screws (2), new lock washers (3) and nuts (4) on hinge (5). Use No. 2 cross tip screwdriver and 3/8 inch socket with ratchet handle. Use helper.



NOTE

Leads are installed on four circuit breakers the same way. Step 2 shows Circuit Breaker 1CB.

2. INSTALL LEADS ON FOUR CIRCUIT BREAKERS.
    - Install Lead 3 (6) and screw (7) on Breaker 1CB terminal (8). Use 1/4 inch flat tip screwdriver.
    - Remove tag from lead.
    - Repeat above installation steps for other Breaker 1CB leads. (See following Circuit Breaker Lead Identification Diagram.)
    - Repeat above installation steps for other three circuit breakers. (See following Circuit Breaker Lead Identification Diagram.)
    - Install new cable ties (9) as required on circuit breaker leads (10). Use round nose pliers.



Circuit Breaker Lead Identification Diagram

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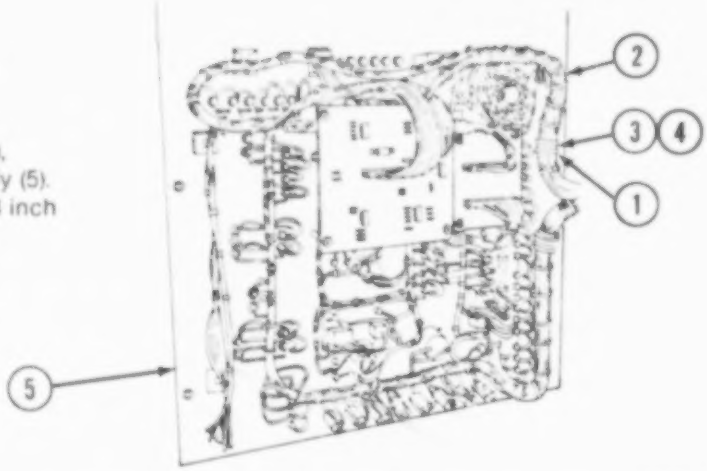
B. INSTALLATION — Continued

3. INSTALL WIRING HARNESS CLAMP ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Place clamp (1) on wiring harness (2).
   - Install clamp (1) with wiring harness (2), screw (3), and nut (4) on panel assembly (5). Use No. 2 cross tip screwdriver and 3/8 inch box end wrench.



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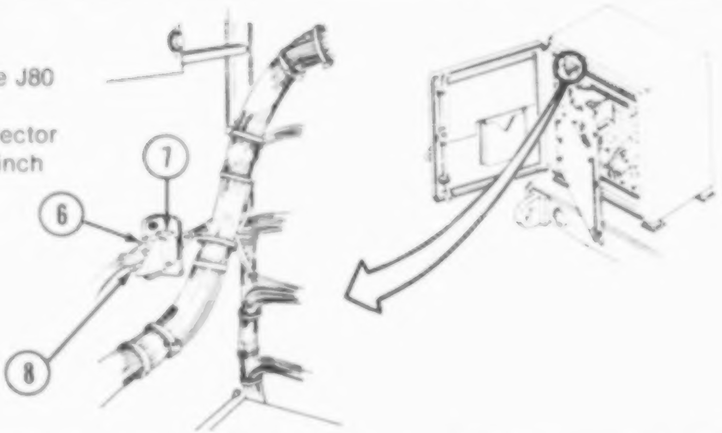
4. CONNECT CONNECTOR P80 TO RECEPTACLE J80.
   - Push Connector P80 (6) on Receptacle J80 (7).
   - Turn jackscrew (8), and connect Connector P80 (6) to Receptacle J80 (7). Use 1/4 inch flat tip screwdriver.



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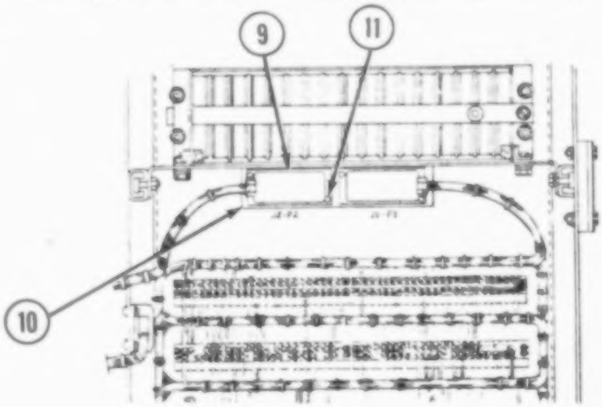
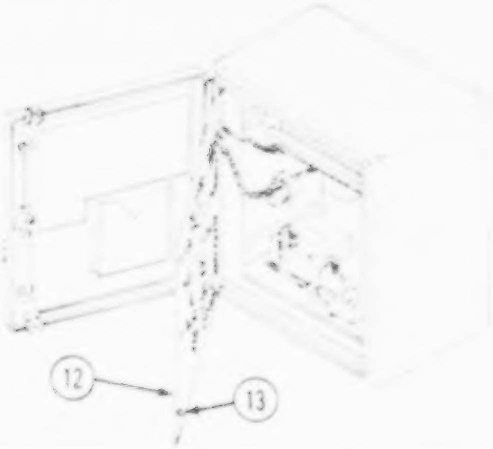
5. CONNECT CONNECTOR P2 TO PECEPTACLE J2.
   - Push Connector P2 (9) on Receptacle J2 (10).
   - Push two screws (11) in, and turn two screws to right. Use 1/4 inch flat tip screwdriver.



6. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP).
   - Close BACP (12), and tighten three panel fasteners (13). Use 3/8 inch flat tip screwdriver.

NOTE

FOLLOW-ON MAINTENANCE:
Close BITE Panel Door. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)



C. CIRCUIT BREAKERS 1CB, 2CB, 3CB, AND 4CB REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

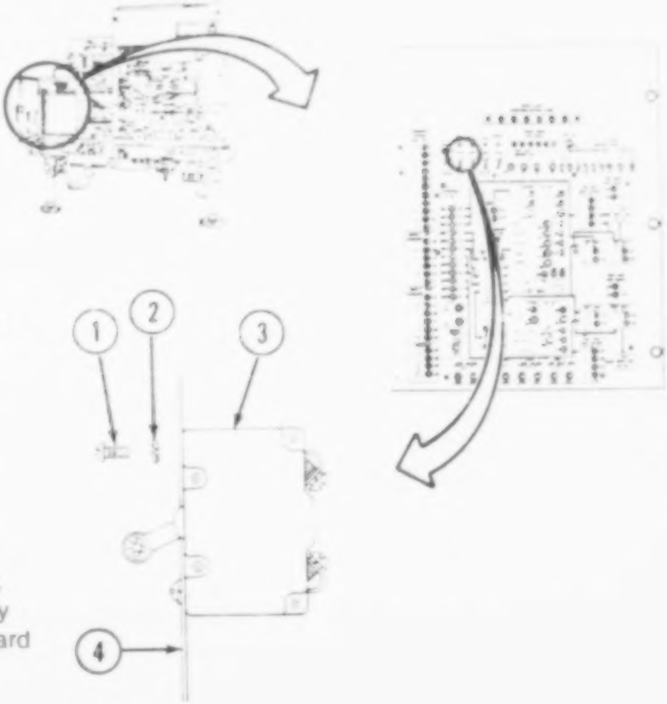
1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

2. REMOVE LEADS FROM FOUR CIRCUIT BREAKERS. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-198.)

NOTE

Four circuit breakers are removed from the B.I.T.E. ALARM panel assembly the same way. Step 3 shows Circuit Breaker 2CB. If you replace more than one circuit breaker, you must increase circuit breaker parts listed in Initial Setup.

3. REMOVE CIRCUIT BREAKER 2CB FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Remove two screws (1), lock washers (2), and Breaker 2CB (3) from panel assembly (4). Use No. 2 cross tip screwdriver. Discard lock washers.



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11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

D. CIRCUIT BREAKERS 1CB, 2CB, 3CB, AND 4CB INSTALLATION

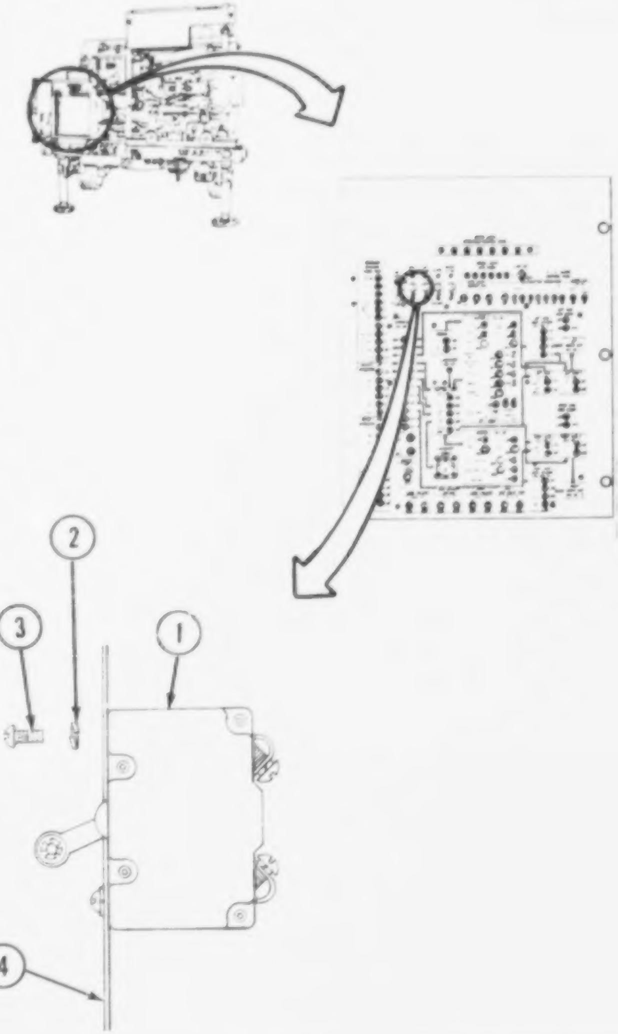
NOTE

Four circuit breakers are installed on the B.I.T.E. ALARM panel assembly the same way. Step 1 shows Circuit Breaker 2CB. If you replace more than one circuit breaker, you must increase the circuit breaker parts listed in Initial Setup.

1. INSTALL CIRCUIT BREAKER 2CB ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Install Breaker 2CB (1), two new lock washers (2), and screws (3) on panel assembly (4). Use No. 2 cross tip screwdriver.
2. INSTALL LEADS ON FOUR CIRCUIT BREAKERS. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-199.)
3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)

NOTE

FOLLOW-ON MAINTENANCE:
Close BITE Panel Door. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)



E. TOGGLE SWITCHES REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

NOTE

If removing Toggle Switch SW17 only, go to step 4. If removing Toggle Switch SW15 only, go to step 5.

2. REMOVE B.I.T.E./ALARM CONTROL PANEL COVER FROM B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

NOTE

Circuit Card Assembly CCA17 must be removed to remove toggle switches SW20 thru SW26.

3. REMOVE CIRCUIT CARD ASSEMBLY CCA17 FROM DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-245.)

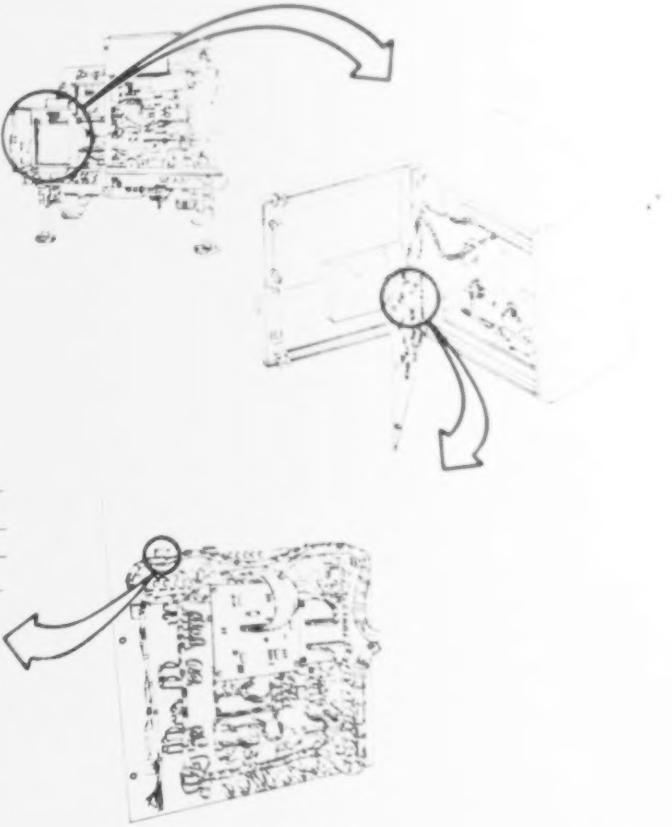
NOTE

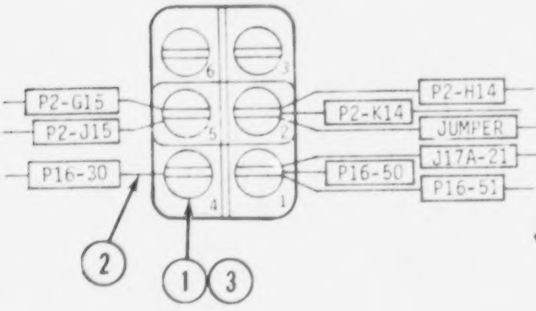
Leads are removed from following toggle switches the same way:

SW17
SW20
SW21
SW22
SW23
SW24
SW25
SW26
SW29
SW30
SW31
SW32
SW33
SW34

Step 4 shows Toggle Switch SW17.

4. REMOVE LEADS FROM TOGGLE SWITCH SW17.
   - Tag and mark leads. (See following SW17 Lead Identification Diagram.)
   - Remove screw (1) and Lead P16-30 (2) from Switch SW17 Terminal No. 4 (3). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal step for other leads.
   - Go to step 6 if not removing Switch SW15.





SW17 Lead Identification Diagram

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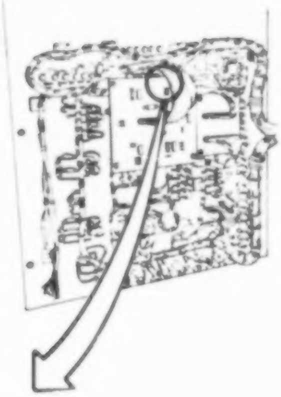
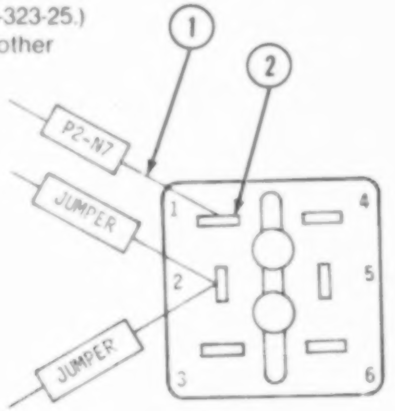
E. TOGGLE SWITCHES REMOVAL — Continued

5. UNSOLDER LEADS AT TOGGLE SWITCH SW15. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See following SW15 Lead Identification Diagram.)
   - Unsolder Lead P2-N7 (1) at Switch SW15 Terminal No. 1 (2). (See TM 55-1500-323-25.)
   - Repeat above unsoldering step for other leads.



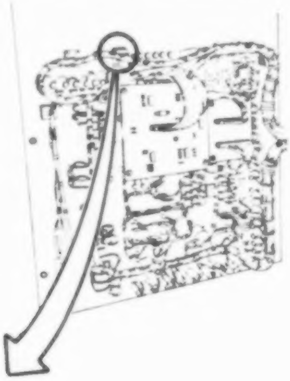


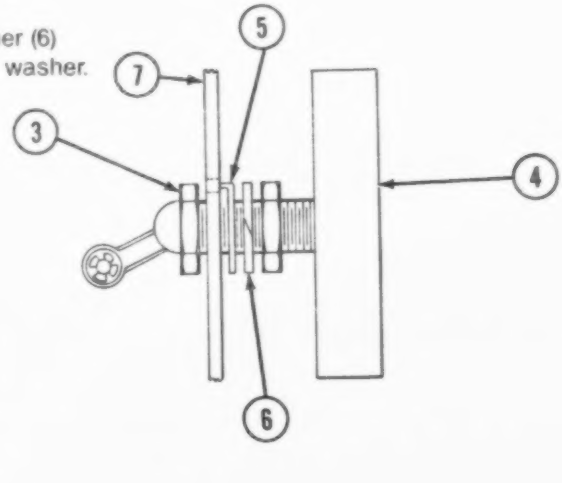
SW15 Lead Identification Diagram

NOTE

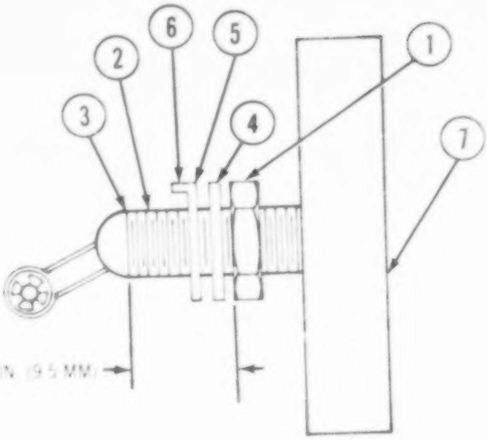
Toggle switches are removed from B.I.T.E. ALARM panel assembly the same way. Step 6 shows Toggle Switch SW17. If you replace more than one toggle switch, you must increase the toggle switch parts listed in Initial Setup.

6. REMOVE TOGGLE SWITCH SW17 FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Remove nut (3) and Switch SW17 (4) with lock ring (5) and lock washer (6) from panel assembly (7). Use 9/16 inch open end wrench.
   - Remove lock ring (5) and lock washer (6) from Switch SW17 (4). Discard lock washer.





F. TOGGLE SWITCHES INSTALLATION

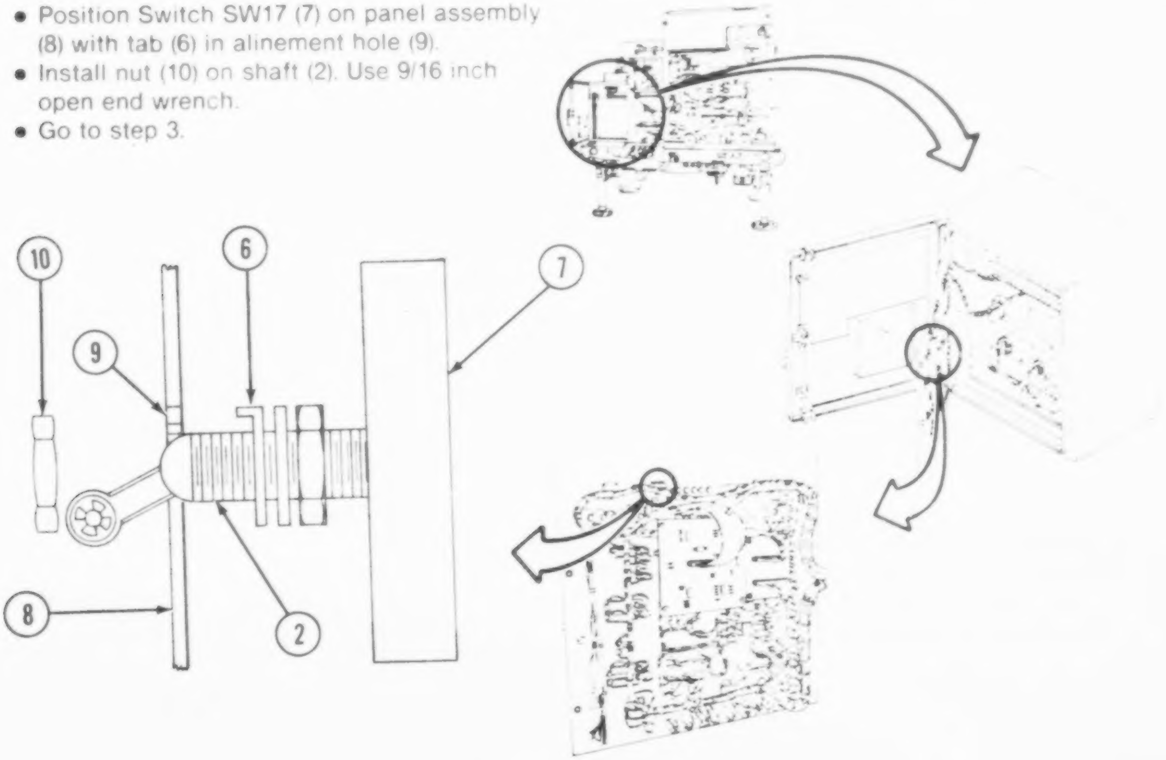


NOTE

Toggle switches are installed on B.I.T.E. ALARM panel assembly the same way. Steps 1 and 2 show Toggle Switch SW17. If installing new toggle switch, go to Step 1. If installing old toggle switch, go to Step 2. If you replace more than one toggle switch, you must increase the toggle switch parts listed in Initial Setup.

1. INSTALL NEW TOGGLE SWITCH SW17 ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Turn nut (1) on shaft (2) until nut is 3/8 in. (9.5 mm) from last thread (3) of shaft. Use steel rule.
   - Place lock washer (4) on shaft (2).
   - Position lock ring (5) on shaft (2) with tab (6) away from new Switch SW17 (7).

- Position Switch SW17 (7) on panel assembly (8) with tab (6) in alinement hole (9).
- Install nut (10) on shaft (2). Use 9/16 inch open end wrench.
- Go to step 3.



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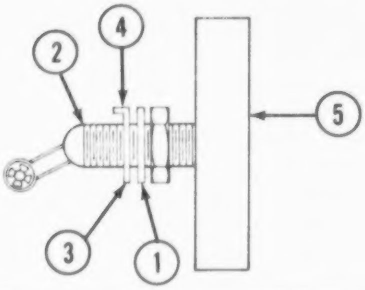
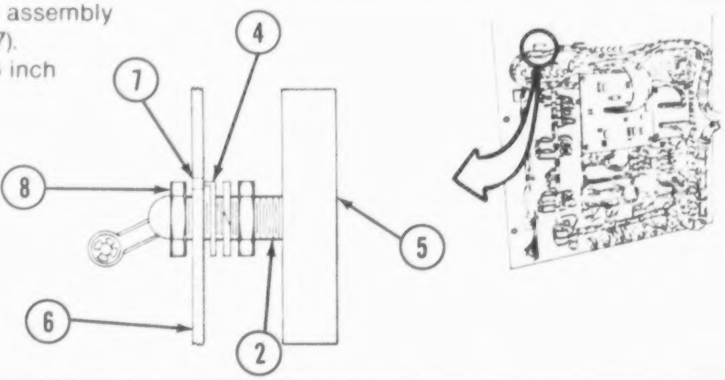
F. TOGGLE SWITCHES INSTALLATION — Continued

2. INSTALL OLD TOGGLE SWITCH SW17 ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Place new lock washer (1) on shaft (2).
   - Position lock ring (3) on shaft (2) with tab (4) away from old Switch SW17 (5).



- Position Switch SW17 (5) on panel assembly (6), with tab (4) in alinement hole (7).
- Install nut (8) on shaft (2). Use 9/16 inch open end wrench.



NOTE

Leads are installed on following toggle switches the same way.

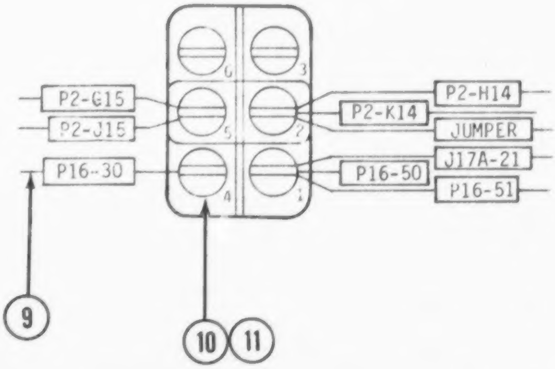
SW17	SW24	SW31
SW20	SW25	SW32
SW21	SW26	SW33
SW22	SW29	SW39
SW23	SW30	

Step 4 shows Toggle Switch SW17.

• • • •

To solder leads at Toggle Switch SW15, go to step 4.

3. INSTALL LEADS ON TOGGLE SWITCH SW17.
   - Install Lead P16-30 (9) and screw (10) on Switch SW17 Terminal No. 4 (11). Use 1/4 inch flat tip screwdriver.
   - Remove tag from lead.
   - Repeat above installation steps for other leads. (See following SW17 Lead Identification Diagram.)



SW17 Lead Identification Diagram

4. SOLDER LEADS AT TOGGLE SWITCH SW15. (SEE TM 55-1500-323-25.)
   - Solder Lead P2-N7 (12) at Switch SW15 Terminal No. 1 (13). (See TM 55-1500-323-25.)
   - Remove tag from lead.
   - Repeat above soldering steps for other leads. (See following SW15 Lead Identification Diagram.)

NOTE

If Circuit Card Assembly CCA17 was not removed, go to step 6.

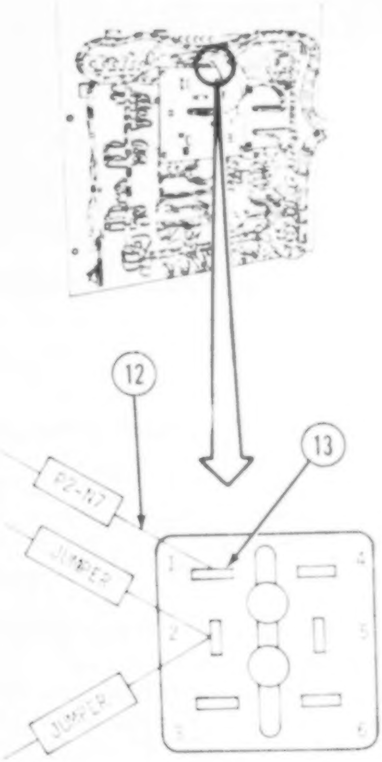
5. INSTALL CIRCUIT CARD ASSEMBLY CCA17 ON DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-246.)

NOTE

If B.I.T.E./ALARM CONTROL PANEL cover was not removed, go to step 7.

6. INSTALL B.I.T.E./ALARM CONTROL PANEL COVER ON B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

7. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)



SW15 Lead Identification Diagram

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform B.I.T.E. ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

GO TO NEXT PAGE

11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

G. PUSHBUTTON SWITCHES REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

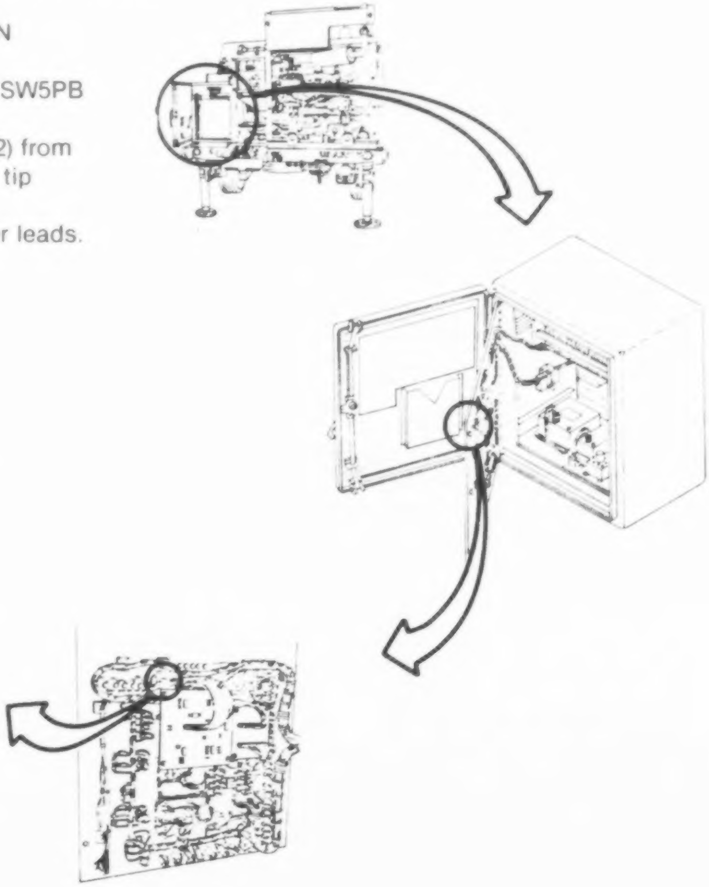
NOTE

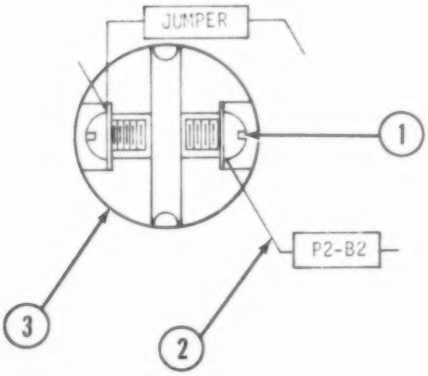
Leads are removed from following pushbutton switches the same way.

SW5PB	SW9PB	SW13PB
SW6PB	SW10PB	SW14PB
SW7PB	SW11PB	SW15PB
SW8PB	SW12PB	

Step 2 shows Pushbutton Switch SW5PB.

2. REMOVE LEADS FROM PUSHBUTTON SWITCH SW5PB.
   - Tag and mark leads. (See following SW5PB Lead Identification Diagram.)
   - Remove screw (1) and Lead P2-B2 (2) from Switch SW5PB (3). Use 1/4 inch flat tip screwdriver.
   - Repeat above removal step for other leads.



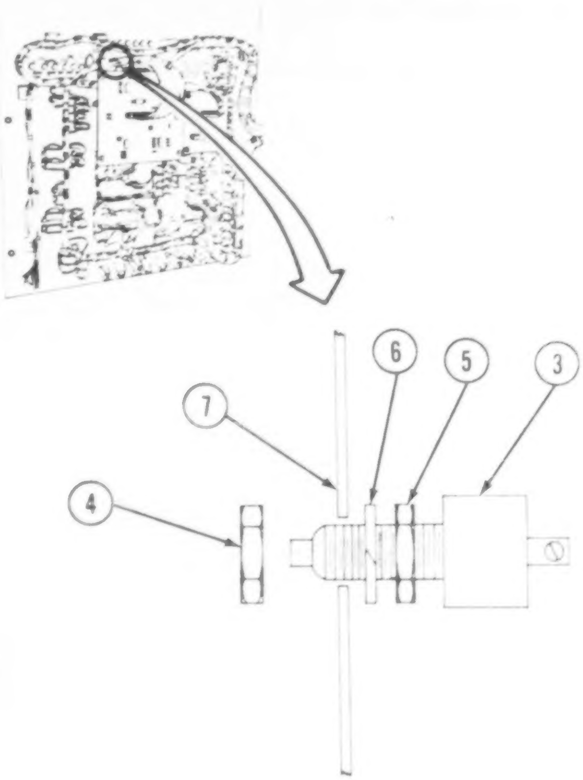


SW5PB Lead Identification Diagram

NOTE

Pushbutton switches are removed from B.I.T.E. ALARM panel assembly the same way. Step 3 shows Pushbutton Switch SW5PB. If you replace more than one pushbutton switch, you must increase the pushbutton switch parts listed in Initial Setup.

3. REMOVE PUSHBUTTON SWITCH SW5PB FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Remove nut (4) and Switch SW5PB (3) with nut (5) and lock washer (6) from panel assembly (7). Use 9/16 inch open end wrench.
   - Remove lock washer (6) from Switch SW5PB (3). Discard lock washer.

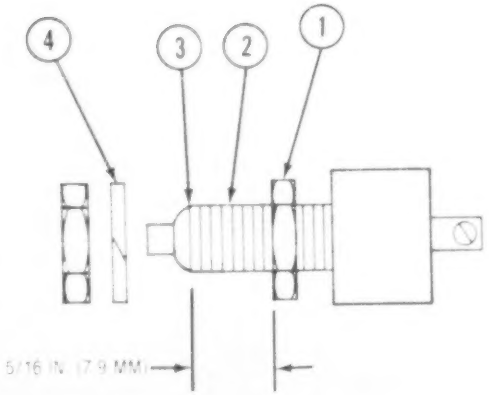


H. PUSHBUTTON SWITCHES INSTALLATION

NOTE

Pushbutton switches are installed on B.I.T.E. ALARM panel assembly the same way. Steps 1 and 2 show Pushbutton Switch SW5PB. If installing old pushbutton switch, go to step 2. If you replace more than one pushbutton switch, you must increase the pushbutton switch parts listed in Initial Setup.

1. INSTALL NEW PUSHBUTTON SWITCH SW5PB ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Turn nut (1) on shaft (2) until 5/16 in. (7.9 mm) from last thread (3) of shaft. Use steel rule.
   - Place lock washer (4) on shaft (2).



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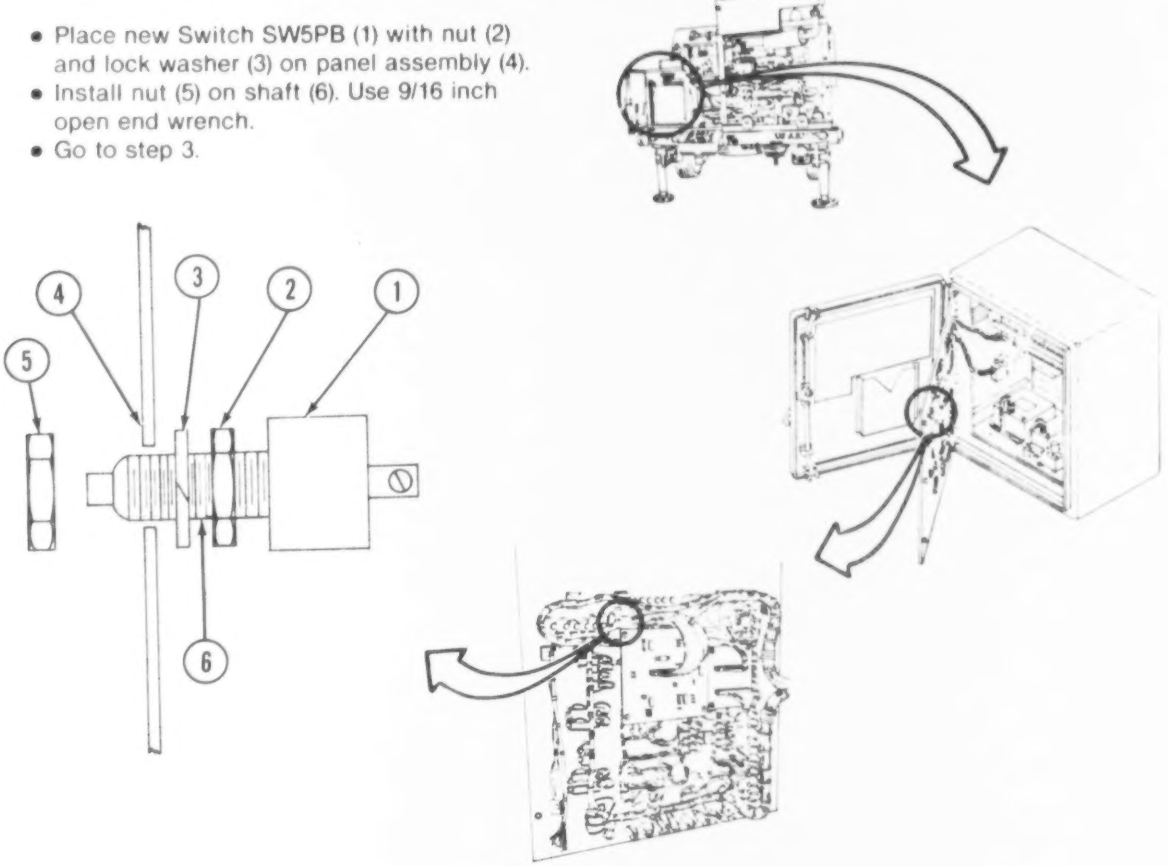
H. PUSHBUTTON SWITCHES INSTALLATION — Continued

- Place new Switch SW5PB (1) with nut (2) and lock washer (3) on panel assembly (4).
- Install nut (5) on shaft (6). Use 9/16 inch open end wrench.
- Go to step 3.



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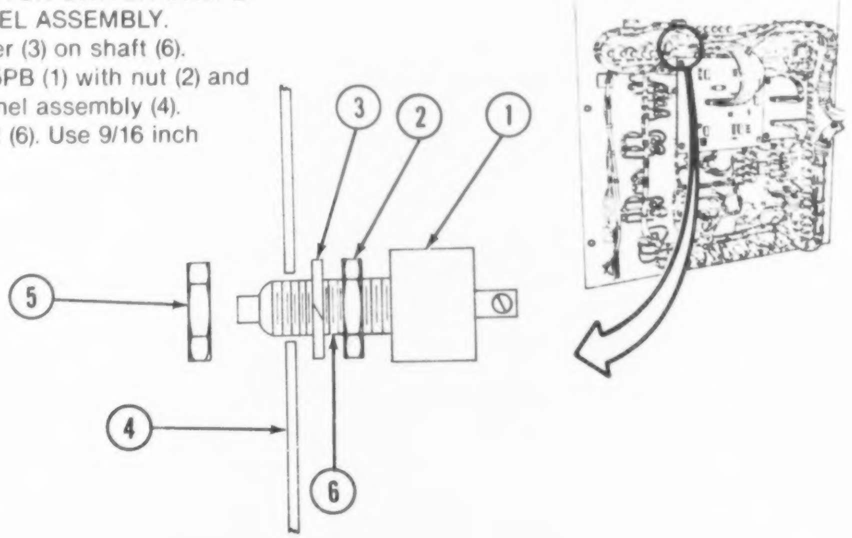
2. INSTALL OLD PUSHBUTTON SWITCH SW5PB ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Place new lock washer (3) on shaft (6).
   - Place old Switch SW5PB (1) with nut (2) and lock washer (3) on panel assembly (4).
   - Install nut (5) on shaft (6). Use 9/16 inch open end wrench.



NOTE

Leads are installed on the following pushbutton switches the same way:

SW5PB
SW6PB
SW7PB
SW8PB
SW9PB
SW10PB
SW11PB
SW12PB
SW13PB
SW14PB
SW15PB

Step 3 shows Pushbutton Switch SW5PB.

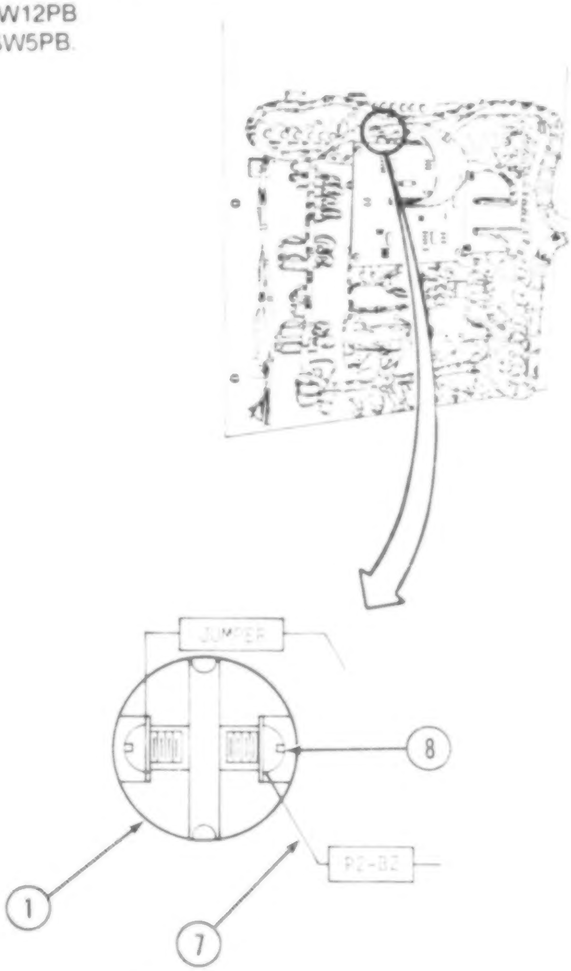
3. INSTALL LEADS ON PUSHBUTTON SWITCH SW5PB.
   - Install Lead P2-B2 (7) and screw (8) on Switch SW5PB (1). Use 1/4 inch flat tip screwdriver.
   - Remove tag from lead.
   - Repeat above installation steps for other leads. (See following SW5PB Lead Identification Diagram.)

4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)



SW5PB Lead Identification Diagram

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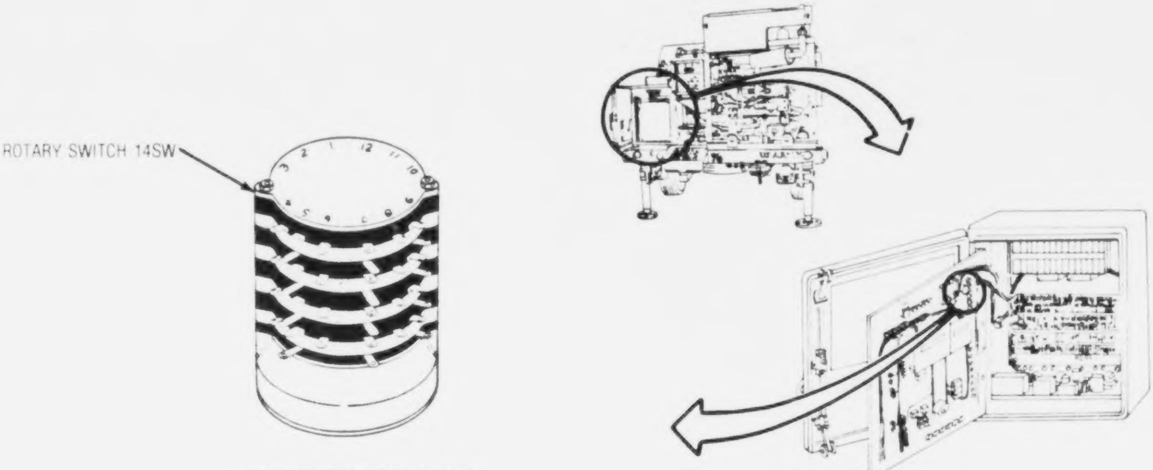
11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

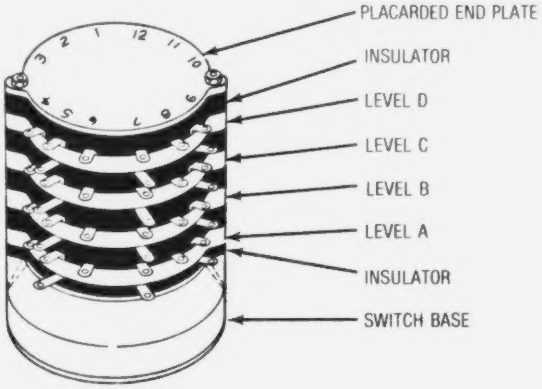
I. ROTARY SWITCH 14SW TERMINAL IDENTIFICATION

Pages 11-212 thru 11-215 show how to identify terminals on Rotary Switch 14SW. Follow the text descriptions in order given. Refer to the diagrams to find the terminals you need.



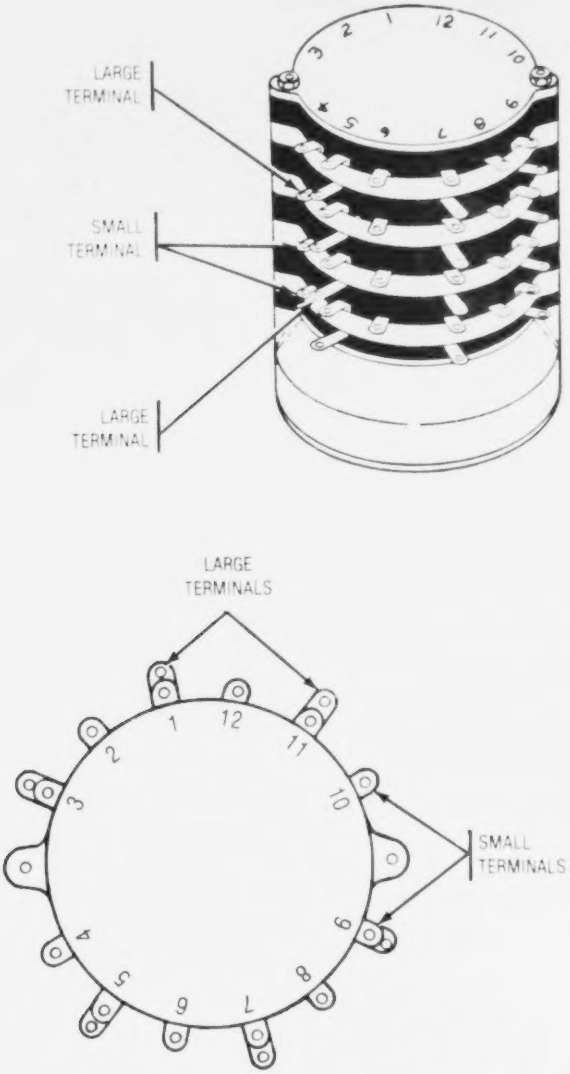
LEADS REMOVED FOR CLARITY

Rotary Switch 14SW terminals are identified by switch number, terminal level, large terminal number, and small terminal number. There are four terminal levels: A, B, C, and D. Terminal level nearest the placarded end plate is Terminal Level D. Terminal level nearest the switch base is Terminal Level A. An insulator separates each terminal level. Also, one insulator separates Level A from switch base. Another insulator separates Level D from placarded end plate. The following Rotary Switch 14SW Level Identification Diagram shows the arrangement of these levels.



Rotary Switch 14SW Level Identification Diagram

Each terminal level has six large terminals around its base and 12 small terminals around its top. The following Rotary Switch 14SW Terminal Location Diagram shows the arrangement of these terminals.



View from Placarded End Plate

Rotary Switch 14SW Terminal Location Diagram

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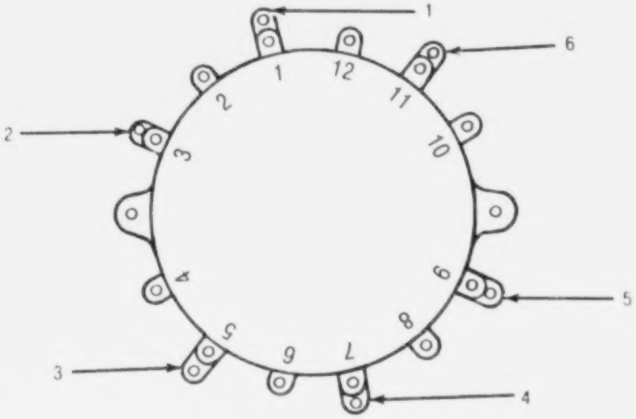
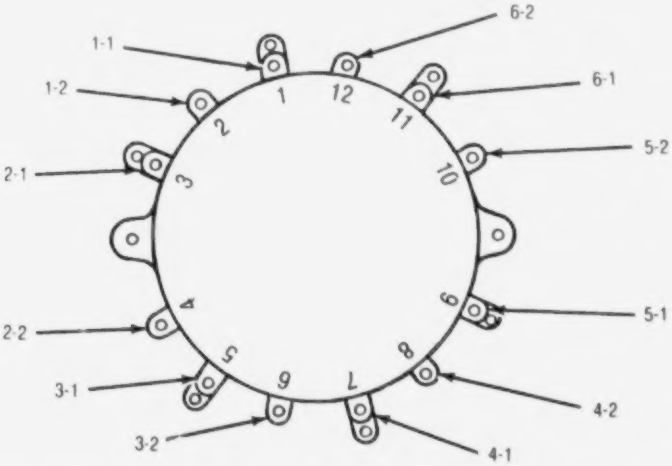
I. ROTARY SWITCH 14SW TERMINAL IDENTIFICATION — Continued

Large terminal numbers follow terminal level letters in electrical circuit designation. Large terminals are numbered 1 thru 6. Their numbers do not match the placarded numbers on end plate. The following Rotary Switch 14SW Large Terminal Identification Diagram, End Plate View, shows these large terminal numbers.



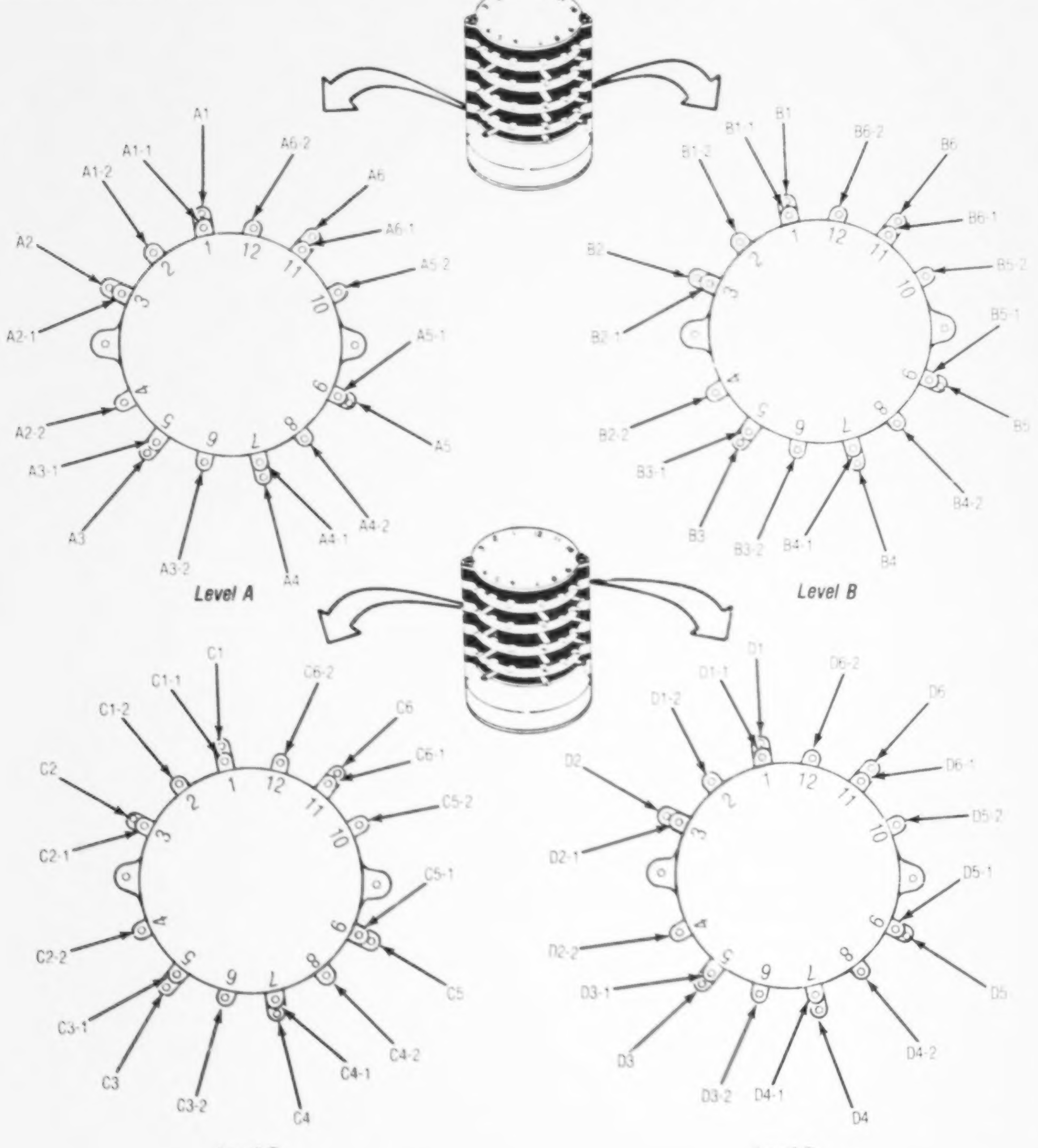
Rotary Switch 14SW Large Terminal Identification Diagram, End Plate View

Small terminal numbers follow large terminal numbers in electrical circuit designation. Small terminals are numbered -1 or -2. Their numbers do not match the placarded numbers on end plate. Small terminals identified as -1 are directly above each large terminal. Those identified as -2 are between and above large terminals, toward the higher number placarded on end plate. The following Rotary Switch 14SW Small Terminal Identification Diagram, End Plate View, shows these small terminal numbers.



Rotary Switch 14SW Small Terminal Identification Diagram, End Plate View

An example of a complete electrical circuit designation for a small terminal on Rotary Switch 14SW is A5-2. This identifies Terminal Level A, and small Terminal -2, which is between large Terminals 5 and 6. The following Rotary Switch 14SW Terminal Identification and Location Diagram, End Plate View, shows terminals on each level.



Level A

Level B

Level C

Level D

Rotary Switch 14SW Terminal Identification and Location Diagram, End Plate View

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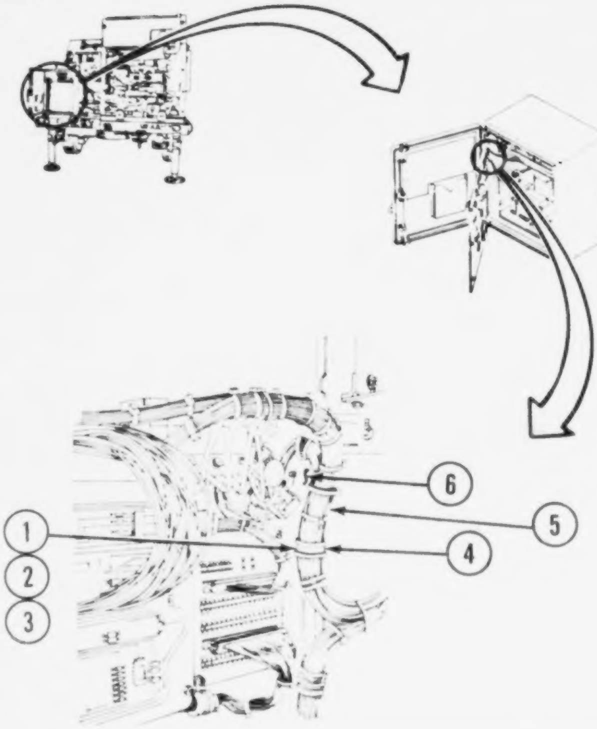
J. ROTARY SWITCH 14SW AND CAPACITOR C1 REMOVAL



NOTE

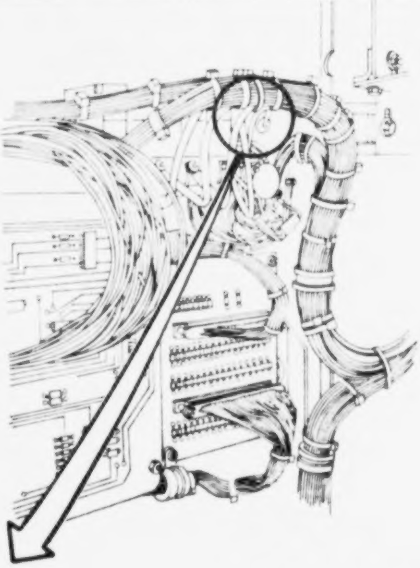
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

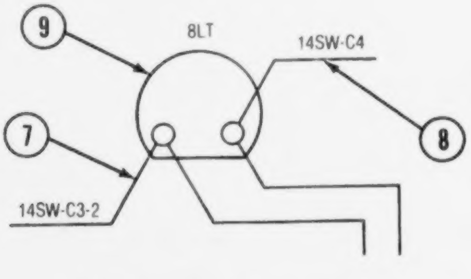
2. REMOVE UPPER CLAMP WITH CABLE ASSEMBLY FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Remove nut (1), lock washer (2), screw (3) and cushion clamp (4) with cable assembly (5) from panel assembly (6). Use No. 2 cross tip screwdriver and 3/8 inch handled socket. Discard lock washer.

NOTE

Rotary Switch 14SW must be moved away from back of B.I.T.E. ALARM panel assembly before disconnecting leads from 14SW terminals.

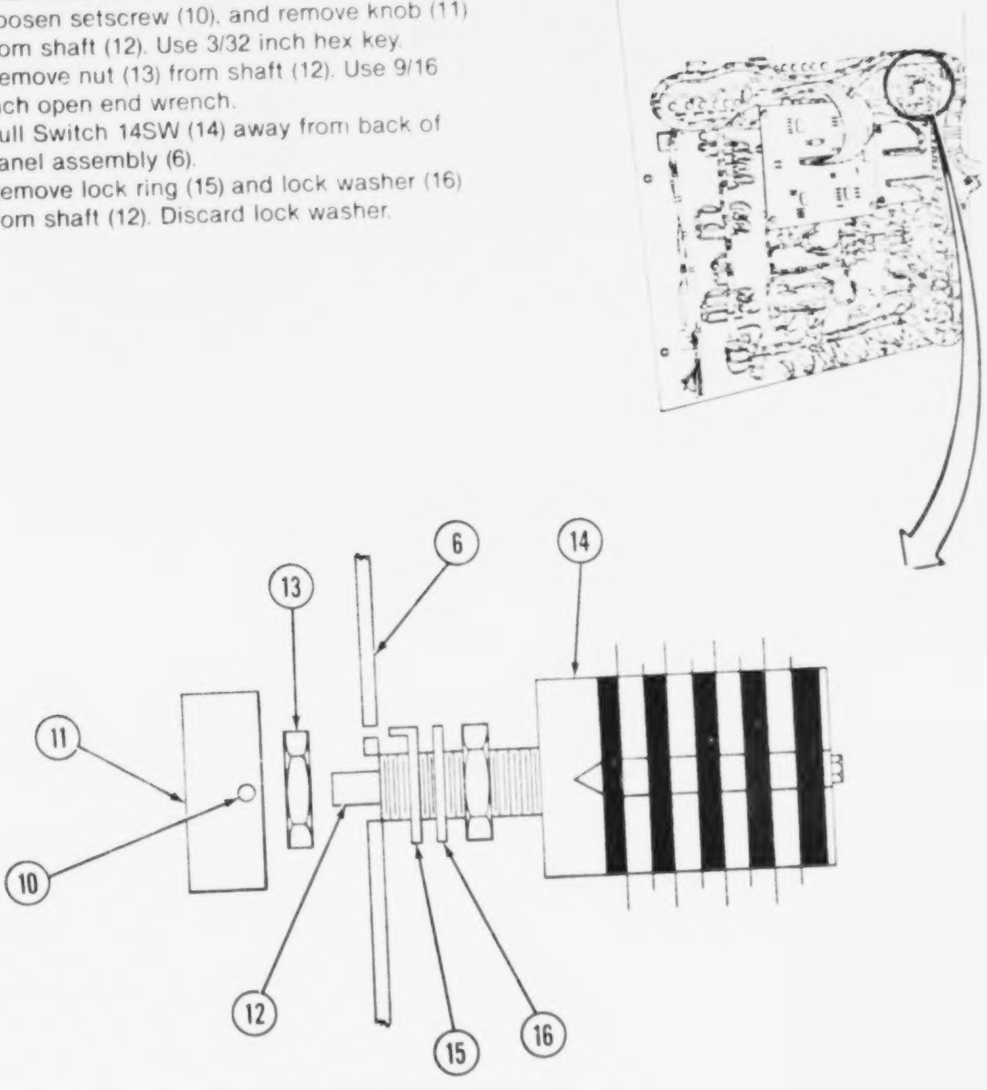


3. UNSOLDER TWO LEADS AT LAMPHOLDER 8LT. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See following 8LT Lead Identification Diagram.)
   - Unsolder Lead 14SW-C3-2 (7) and Lead 14SW-C4 (8) at Lampholder 8LT (9). (See TM 55-1500-323-25.)



8LT Lead Identification Diagram

4. REMOVE ROTARY SWITCH 14SW FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Loosen setscrew (10), and remove knob (11) from shaft (12). Use 3/32 inch hex key.
   - Remove nut (13) from shaft (12). Use 9/16 inch open end wrench.
   - Pull Switch 14SW (14) away from back of panel assembly (6).
   - Remove lock ring (15) and lock washer (16) from shaft (12). Discard lock washer.



LEADS REMOVED FOR CLARITY

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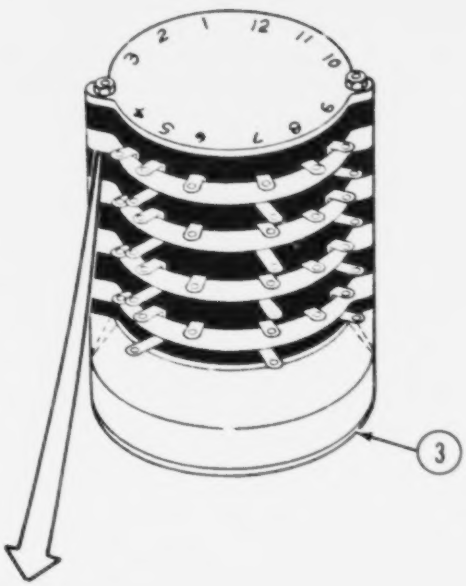
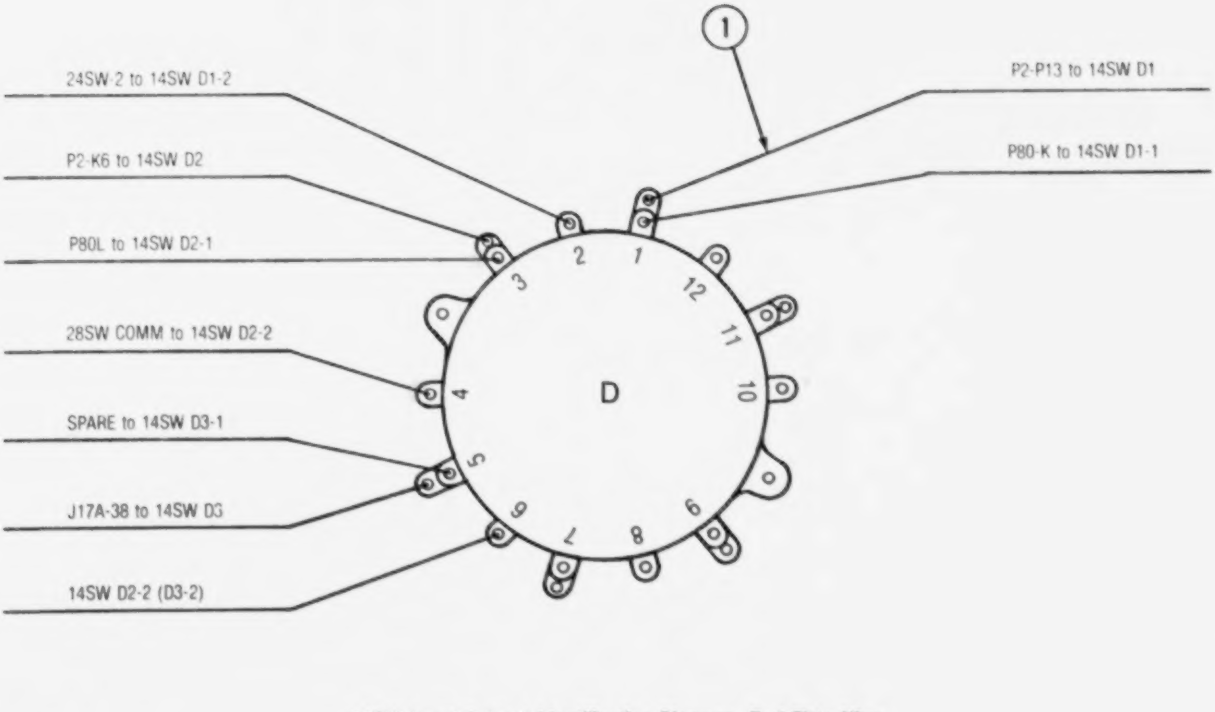
J. ROTARY SWITCH 14SW AND CAPACITOR C1 REMOVAL — Continued

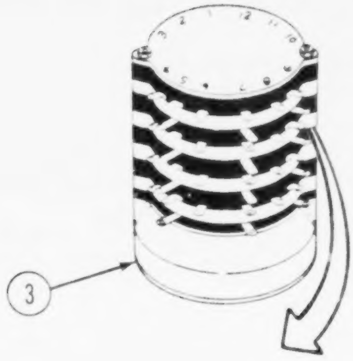
5. UNSOLDER NINE LEADS AT ROTARY SWITCH 14SW, LEVEL D. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See following 14SW Level D Lead Identification Diagram, End Plate View.)
   - Unsolder nine leads (1) at Level D (2) of Switch 14SW (3). (See TM 55-1500-323-25.)

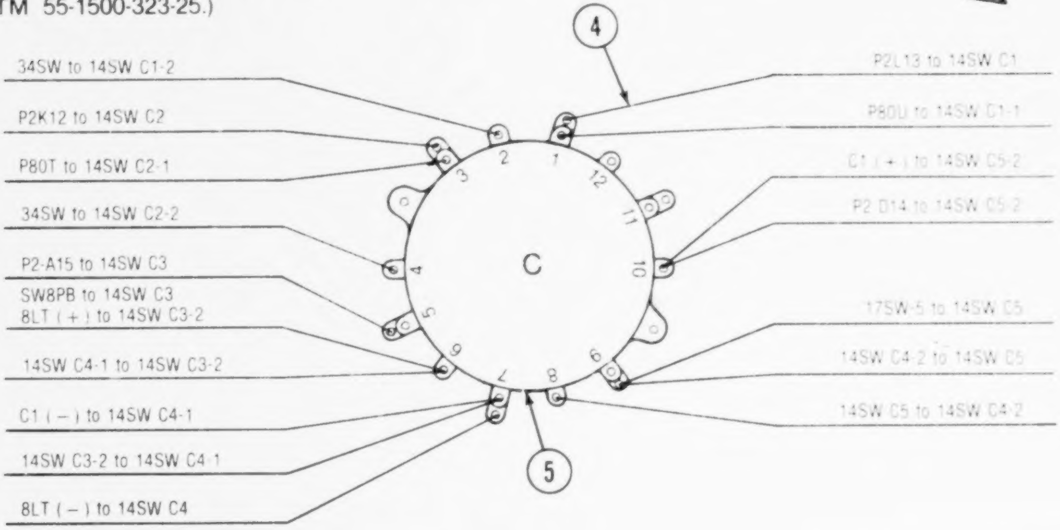




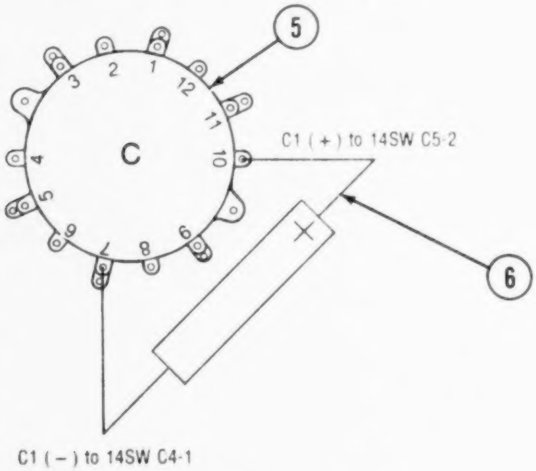
14SW Level D Lead Identification Diagram, End Plate View

6. UNSOLDER 19 LEADS AND CAPACITOR C1 AT ROTARY SWITCH 14SW, LEVEL C. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See following 14SW Level C Lead Identification Diagram, End Plate View, and following Capacitor C1 Terminal Connection Diagram, End Plate View.)
   - Unsolder 17 leads (4) at Level C (5) of Switch 14SW (3). (See TM 55-1500-323-25.)
   - Unsolder two Capacitor C1 leads (6) at Level C (5) of Switch 14SW (3). (See TM 55-1500-323-25.)





14SW Level C Lead Identification Diagram, End Plate View

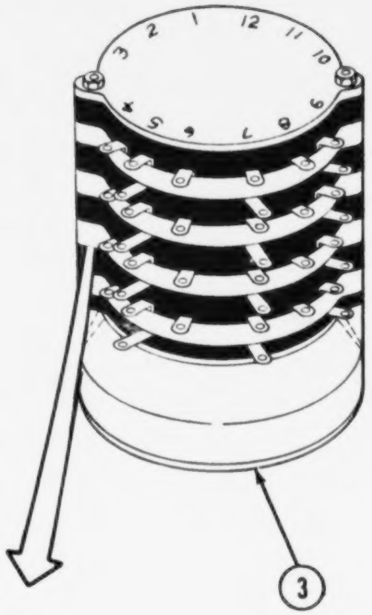


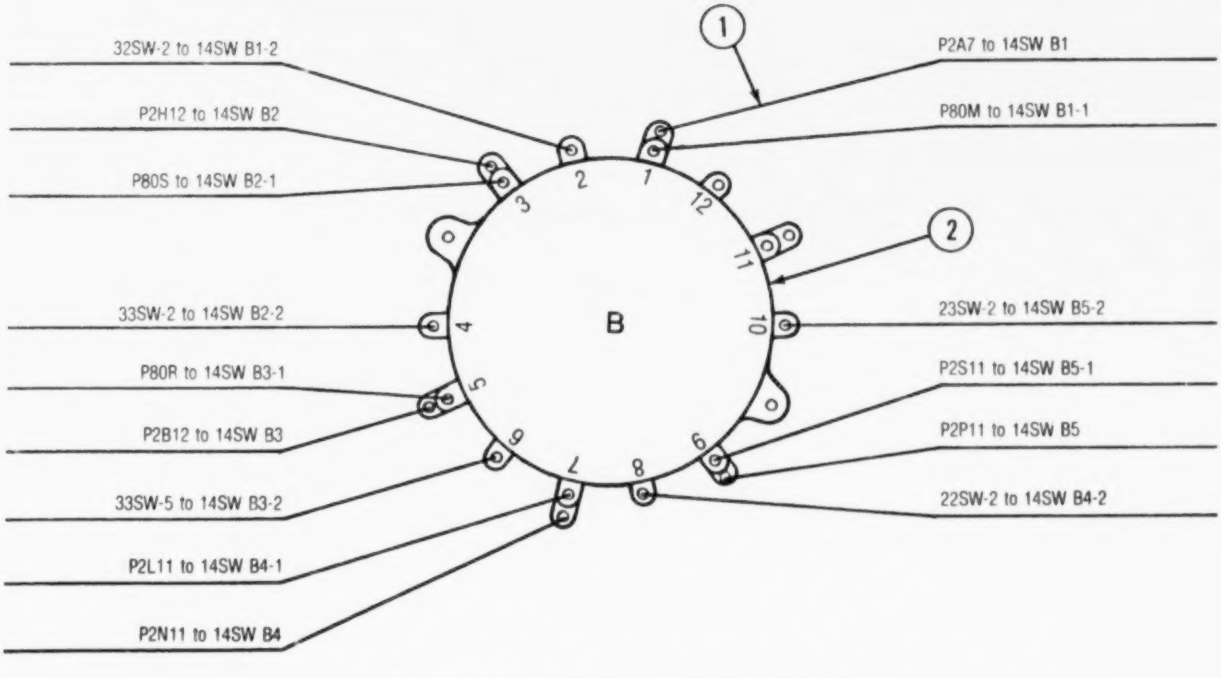
Capacitor C1 Terminal Connection Diagram, End Plate View

GO TO NEXT PAGE

J. ROTARY SWITCH 14SW AND CAPACITOR C1 REMOVAL — Continued

7. UNSOLDER 15 LEADS AT ROTARY SWITCH 14SW, LEVEL B. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See following 14SW Level B Lead Identification Diagram, End Plate View.)
   - Unsolder 15 leads (1) at Level B (2) of Switch 14SW (3). (See TM 55-1500-323-25.)

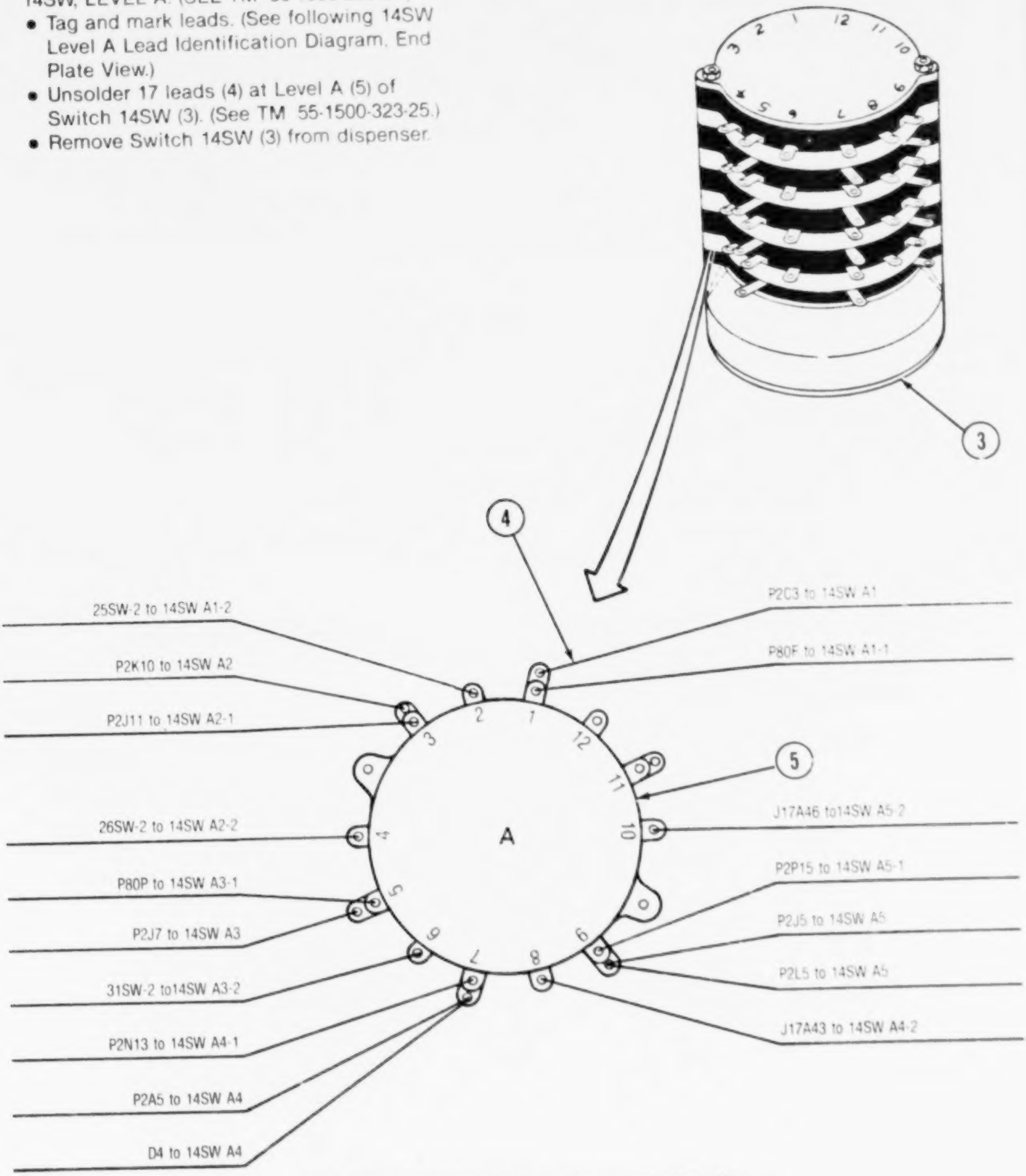




14SW Level B Lead Identification Diagram, End Plate View

8 UNSOLDER 17 LEADS AT ROTARY SWITCH 14SW, LEVEL A. (SEE TM 55-1500-323-25.)

- Tag and mark leads. (See following 14SW Level A Lead Identification Diagram, End Plate View.)
- Unsolder 17 leads (4) at Level A (5) of Switch 14SW (3). (See TM 55-1500-323-25.)
- Remove Switch 14SW (3) from dispenser.



14SW Level A Lead Identification Diagram, End Plate View

GO TO NEXT PAGE

11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

K. ROTARY SWITCH 14SW AND CAPACITOR C1 INSTALLATION

NOTE

Hold switch with placarded No. 1 and No. 2 at top of switch when soldering leads on each level.

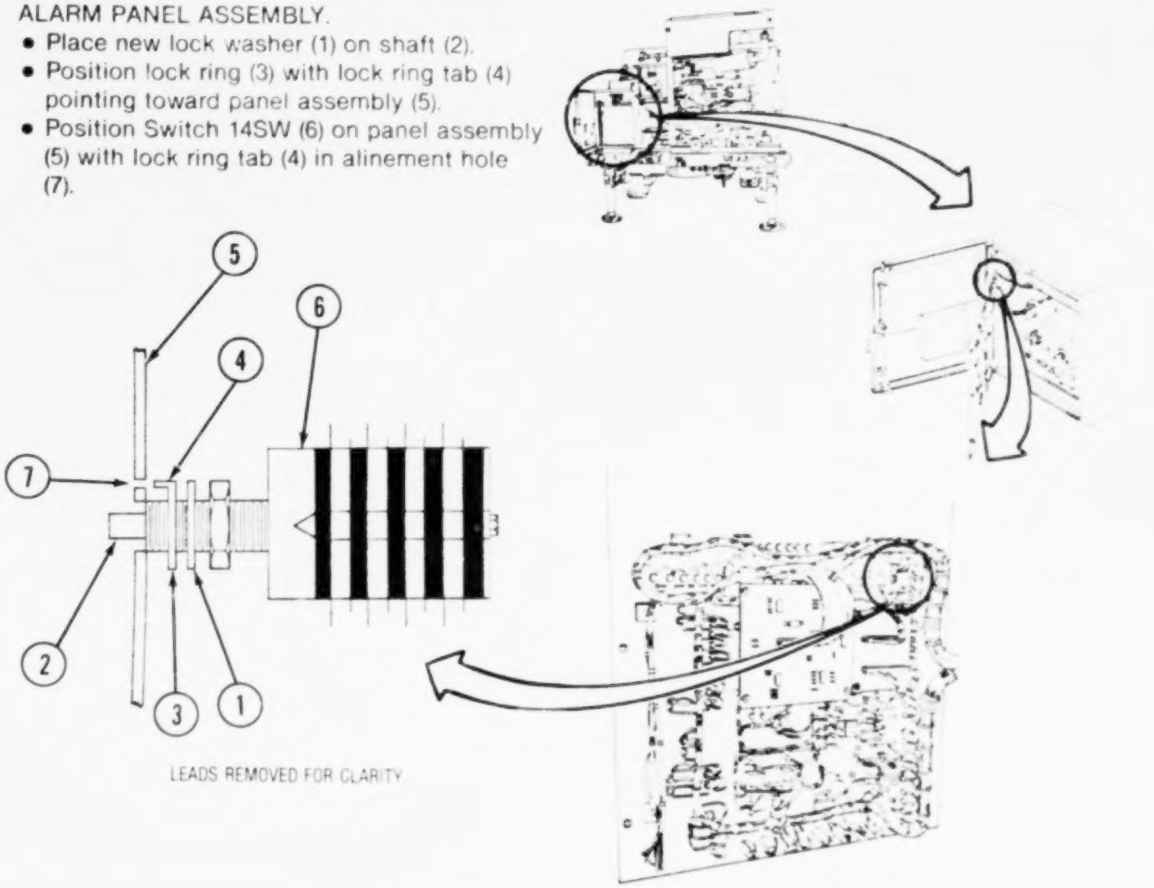
1. SOLDER 17 LEADS AT ROTARY SWITCH 14SW, LEVEL A. (SEE TM 55-1500-323-25.)
   - Solder 17 leads at Switch 14SW, Level A. (See TM 55-1500-323-25 and 14SW Level A Lead Identification Diagram, End Plate View, Page 11-221.)
   - Remove tags from leads.

2. SOLDER 15 LEADS AT ROTARY SWITCH 14SW, LEVEL B. (See TM 55-1500-323-25.)
   - Solder 15 leads at Switch 14SW, Level B. (See TM 55-1500-323-25 and 14SW Level B Lead Identification Diagram, End Plate View, Page 11-220.)
   - Remove tags from leads.

3. SOLDER CAPACITOR C1 AND 19 LEADS AT ROTARY SWITCH 14SW, LEVEL C. (SEE TM 55-1500-323-25.)
   - Solder two Capacitor C1 leads at Switch 14SW, Level C. (See TM 55-1500-323-25 and Capacitor C1 Terminal Connection Diagram, End Plate View, Page 11-219.)
   - Solder 17 leads at Switch 14SW, Level C. (See TM 55-1500-323-25 and 14SW Level C Lead Identification Diagram, End Plate View, Page 11-219.)
   - Remove tags from leads.

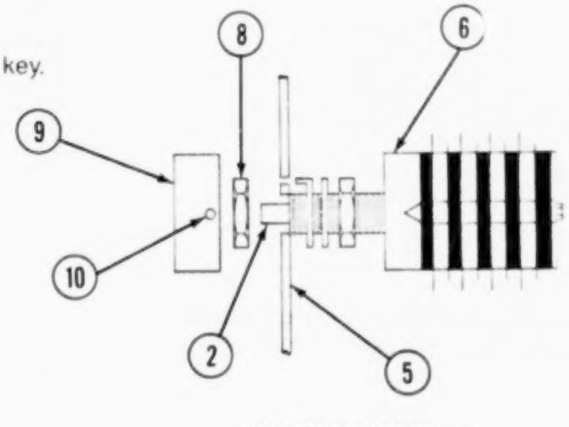
4. SOLDER NINE LEADS AT ROTARY SWITCH 14SW, LEVEL D. (SEE TM 55-1500-323-25.)
   - Solder nine leads at Switch 14SW, Level C. (See TM 55-1500-323-25 and 14SW Level D Lead Identification Diagram, End Plate View, Page 11-218.)
   - Remove tags from leads.

5. INSTALL ROTARY SWITCH 14SW ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Place new lock washer (1) on shaft (2).
   - Position lock ring (3) with lock ring tab (4) pointing toward panel assembly (5).
   - Position Switch 14SW (6) on panel assembly (5) with lock ring tab (4) in alinement hole (7).



LEADS REMOVED FOR CLARITY

- Install Switch 14SW (6) and nut (8) on panel assembly (5). Use 9/16 inch open end wrench.
- Place knob (9) on shaft (2).
- Tighten setscrew (10). Use 3/32 inch hex key.



LEADS REMOVED FOR CLARITY

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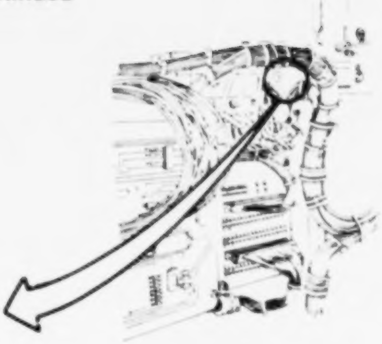
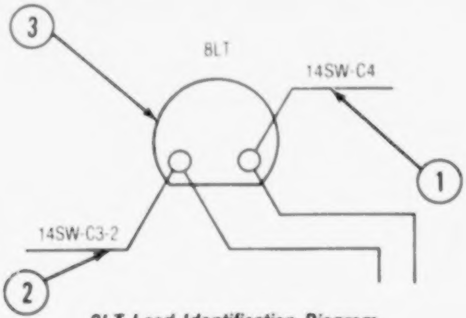
K. ROTARY SWITCH 14SW AND CAPACITOR C1 INSTALLATION — Continued

6. SOLDER TWO LEADS AT LAMPHOLDER 8LT. (SEE TM 55-1500-323-25.)
   - Solder Lead 14SW-C4 (1) and Lead 14SW-C3-2 (2) at Lampholder 8LT (3). (See TM 55-1500-323-25 and following 8LT Lead Identification Diagram.)
   - Remove tags from leads.





8LT Lead Identification Diagram

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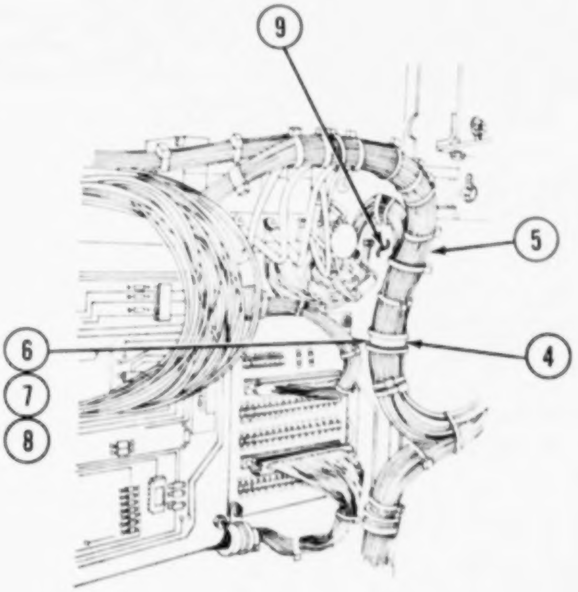
7. INSTALL UPPER CLAMP WITH CABLE ASSEMBLY ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Install cushion clamp (4) with cable assembly (5), new lock washer (6), screw (7), and nut (8) on panel assembly (9). Use No. 2 cross tip screwdriver and 3/8 inch handled socket.

8. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)



NOTE

FOLLOW-ON MAINTENANCE:

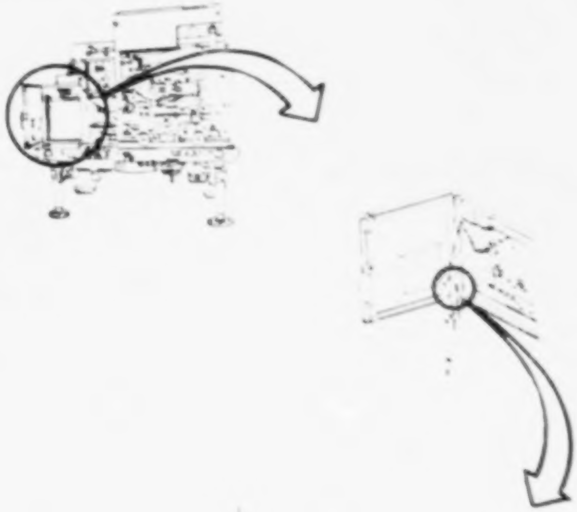
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

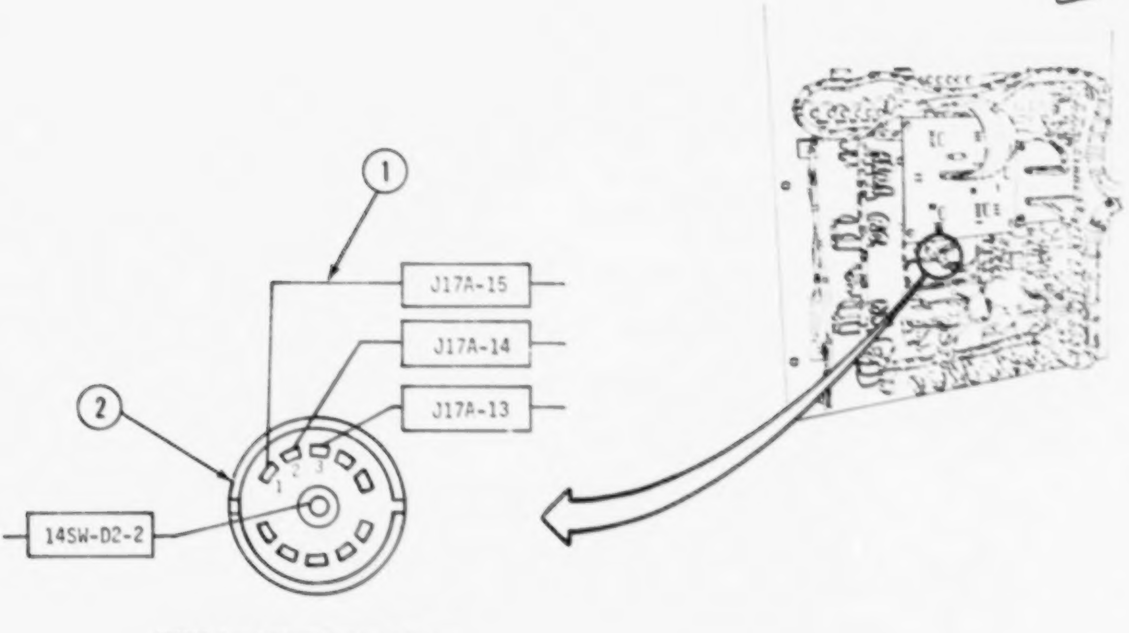
L. ROTARY SWITCH SW28 WITH POINTER KNOB REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)
2. REMOVE B.I.T.E./ALARM CONTROL PANEL COVER FROM B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)
3. UNSOLDER FOUR LEADS AT ROTARY SWITCH SW28. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See following SW28 Lead Identification Diagram.)
   - Unsolder four leads (1) at Switch SW28 (2). (See TM 55-1500-323-25.)



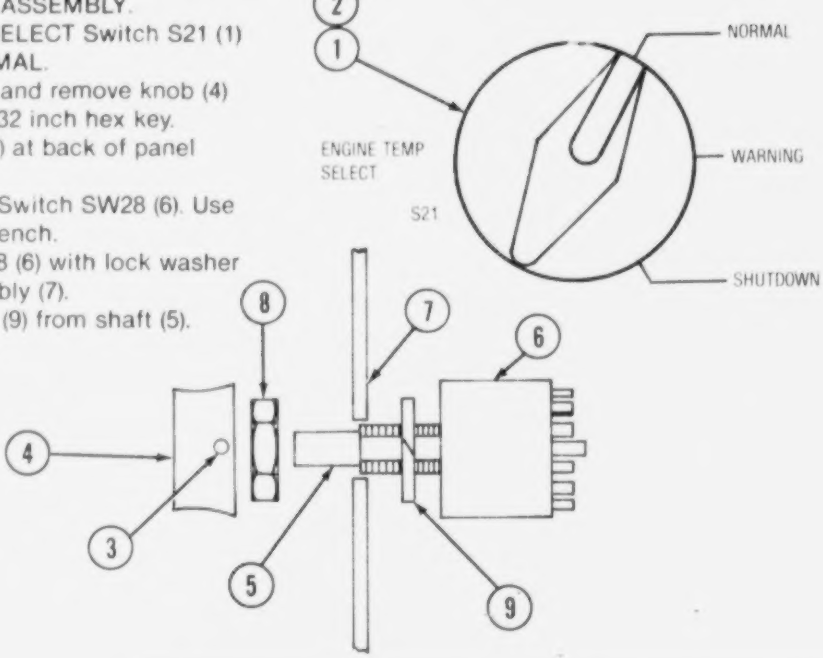


SW28 Lead Identification Diagram

GO TO NEXT PAGE

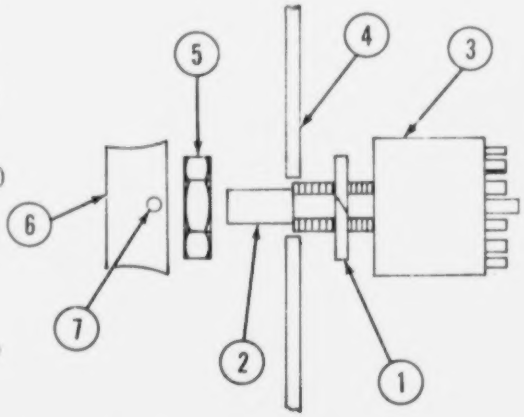
L. ROTARY SWITCH SW28 WITH POINTER KNOB REMOVAL — Continued

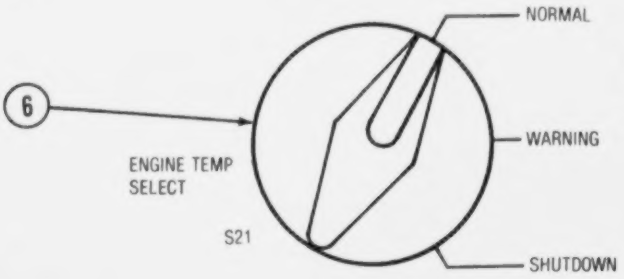
4. REMOVE ROTARY SWITCH SW28 FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Set ENGINE TEMP SELECT Switch S21 (1) on BACP (2) to NORMAL.
   - Loosen setscrew (3), and remove knob (4) from shaft (5). Use 3/32 inch hex key.
   - Hold Switch SW28 (6) at back of panel assembly (7).
   - Remove nut (8) from Switch SW28 (6). Use 3/8 inch open end wrench.
   - Remove Switch SW28 (6) with lock washer (9) from panel assembly (7).
   - Remove lock washer (9) from shaft (5). Discard lock washer.



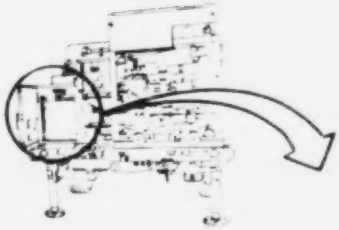
M. ROTARY SWITCH SW28 WITH POINTER KNOB INSTALLATION

1. INSTALL ROTARY SWITCH SW28 ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Place new lock washer (1) on shaft (2).
   - Insert Switch SW28 (3) with lock washer (1) through hole in panel assembly (4).
   - Install nut (5) on Switch SW28 (3). Use 3/8 inch open end wrench.
   - Place knob (6) on shaft (2), and position knob to point to NORMAL.
   - Tighten setscrew (7), and rotate knob (6) to check that pointer alines with panel markings.



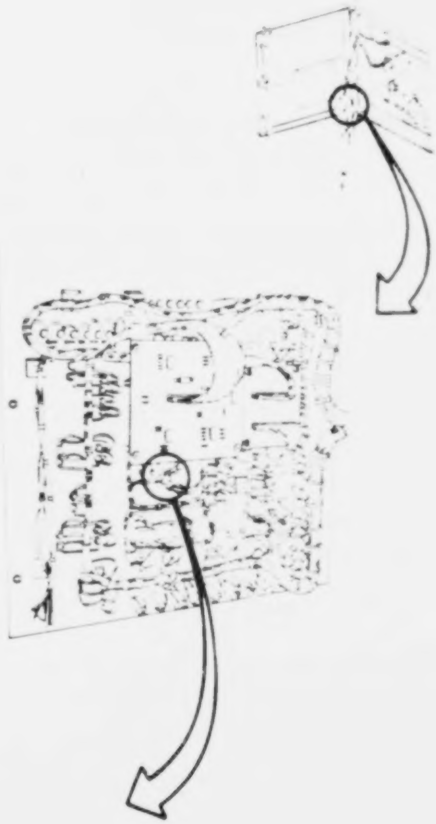


2. SOLDER FOUR LEADS AT ROTARY SWITCH SW28. (SEE TM 55-1500-323-25.)
   - Prepare four leads (8) for soldering. (See TM 55-1500-323-25.)
   - Solder four leads (8) at Switch SW28 (3). (See TM 55-1500-323-25 and following SW28 Lead Identification Diagram.)
   - Remove tags from leads.



3. INSTALL B.I.T.E./ALARM CONTROL PANEL COVER ON B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)



NOTE

FOLLOW-ON MAINTENANCE:

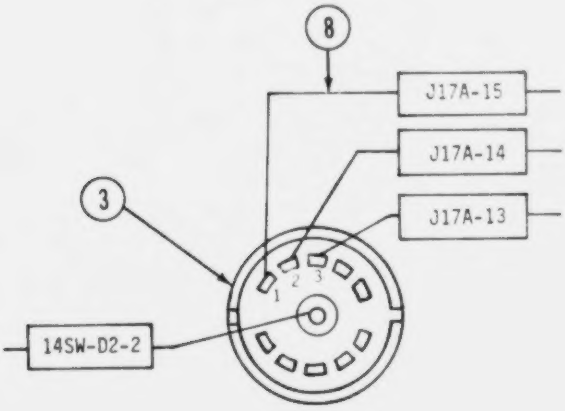
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)

Close Right Battery Box Cover. (See TM 9-1095-205-10.)

Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)

Close BITE Panel Door. (See TM 9-1095-205-10.)

Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)



SW28 Lead Identification Diagram

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11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

N. VARIABLE RESISTORS R5 AND R6 REMOVAL

NOTE

PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

2. REMOVE B.I.T.E./ALARM CONTROL PANEL COVER FROM B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

NOTE

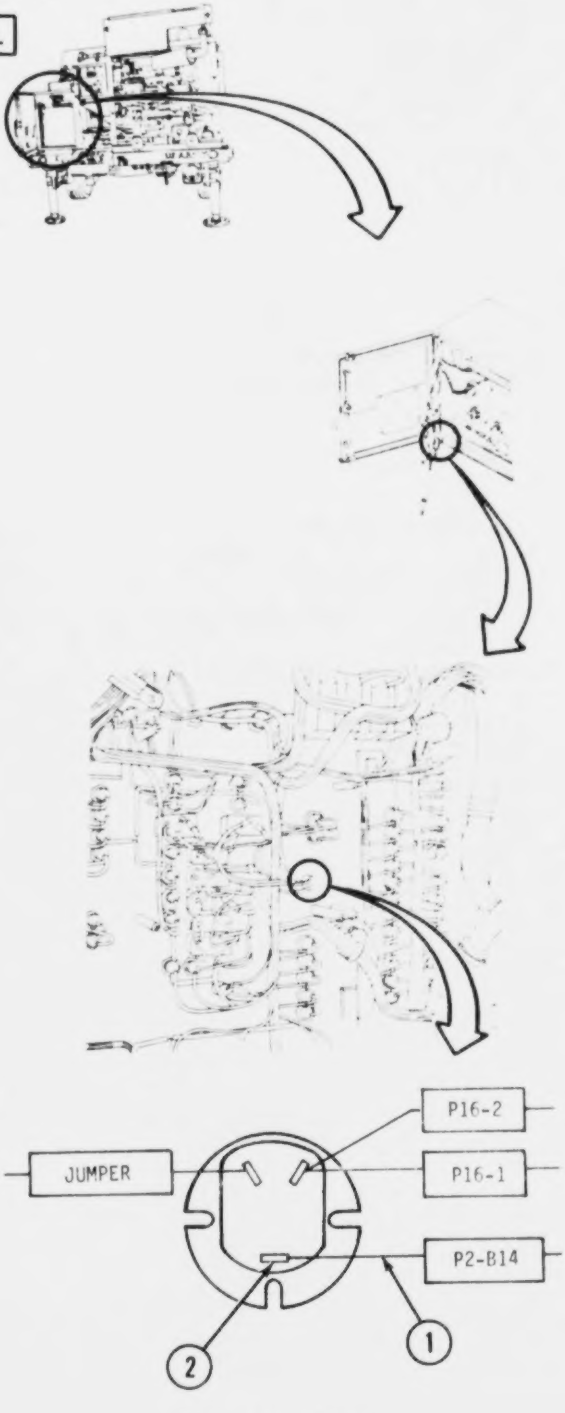
If removing Variable Resistor R6 only, go to step 4.

3. REMOVE CIRCUIT CARD ASSEMBLY CCA17 FROM DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-245.)

NOTE

Leads are unsoldered at Variable Resistors R5 and R6 the same way. Step 4 shows Variable Resistor R5.

4. UNSOLDER FOUR LEADS AT VARIABLE RESISTOR R5. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See following R5 Lead Identification Diagram.)
   - Unsolder Lead P2-B14 (1) at Resistor R5 terminal (2). (See TM 55-1500-323-25.)
   - Repeat above unsoldering step for other three leads.

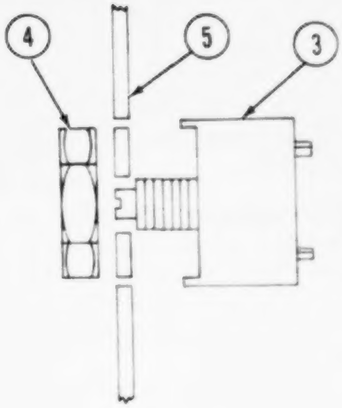


R5 Lead Identification Diagram

NOTE

Variable Resistors R5 and R6 are removed the same way. Step 5 shows Variable Resistor R5.

5. REMOVE VARIABLE RESISTOR R5 FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Support Resistor (3), and remove nut (4). Use 5/16 inch open end wrench.
   - Remove Resistor (3) from panel assembly (5).

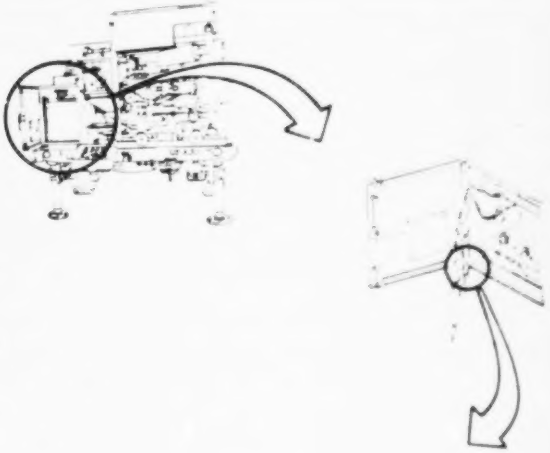


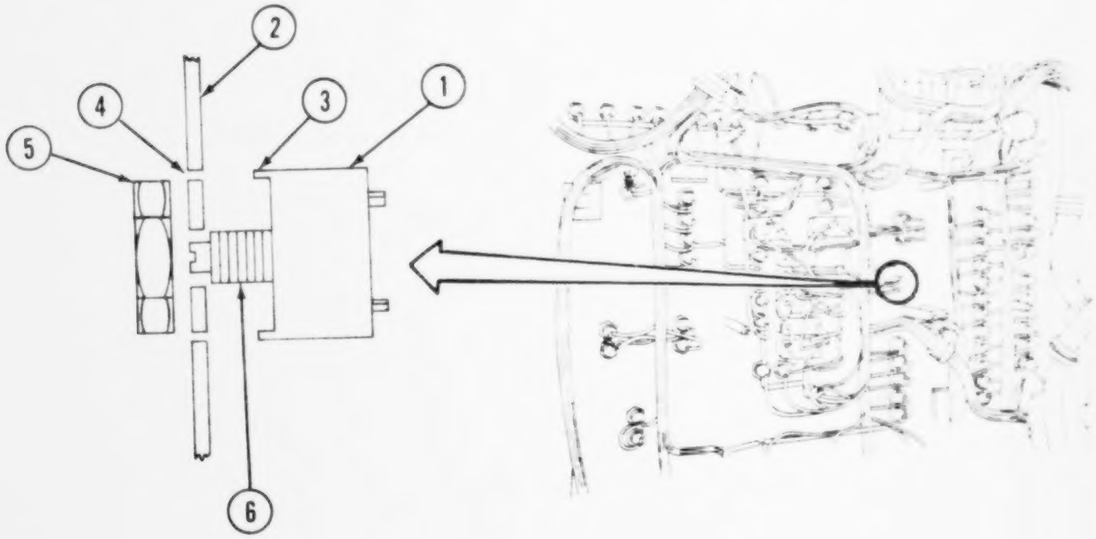
O. VARIABLE RESISTORS R5 AND R6 INSTALLATION

NOTE

Variable resistors R5 and R6 are installed the same way. Step 1 shows Variable Resistor R5.

1. INSTALL VARIABLE RESISTOR R5 ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Position Resistor R5 (1) on panel assembly (2) with two tabs (3) in alinement holes (4).
   - Install nut (5) on shaft (6). Use 5/16 inch open end wrench.





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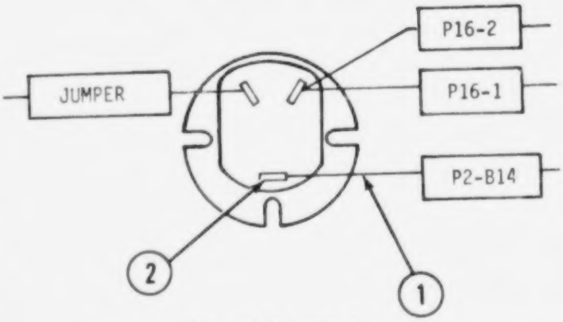
O. VARIABLE RESISTORS R5 AND R6 INSTALLATION — Continued

NOTE

Leads are soldered at Variable Resistors R5 and R6 the same way. Step 2 shows Variable Resistor R5.

2. SOLDER FOUR LEADS AT VARIABLE RESISTOR R5. (SEE TM 55-1500-323-25.)
   - Solder Lead P2-B14 (1) at Resistor R5 terminal (2). (See TM 55-1500-323-25 and following R5 Lead Identification Diagram.)
   - Remove tag from lead.
   - Repeat above installation steps for other leads.



R5 Lead Identification Diagram

NOTE

If Circuit Card Assembly CCA17 was not removed, go to step 4.

3. INSTALL CIRCUIT CARD ASSEMBLY CCA17 ON DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-246.)

4. INSTALL B.I.T.E./ALARM CONTROL PANEL COVER ON B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

5. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

P. LAMPS AND LAMPHOLDERS REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

NOTE

B.I.T.E./ALARM CONTROL PANEL cover must be removed before Lamps L38 thru L92 can be removed.

2. REMOVE B.I.T.E./ALARM CONTROL PANEL COVER FROM B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

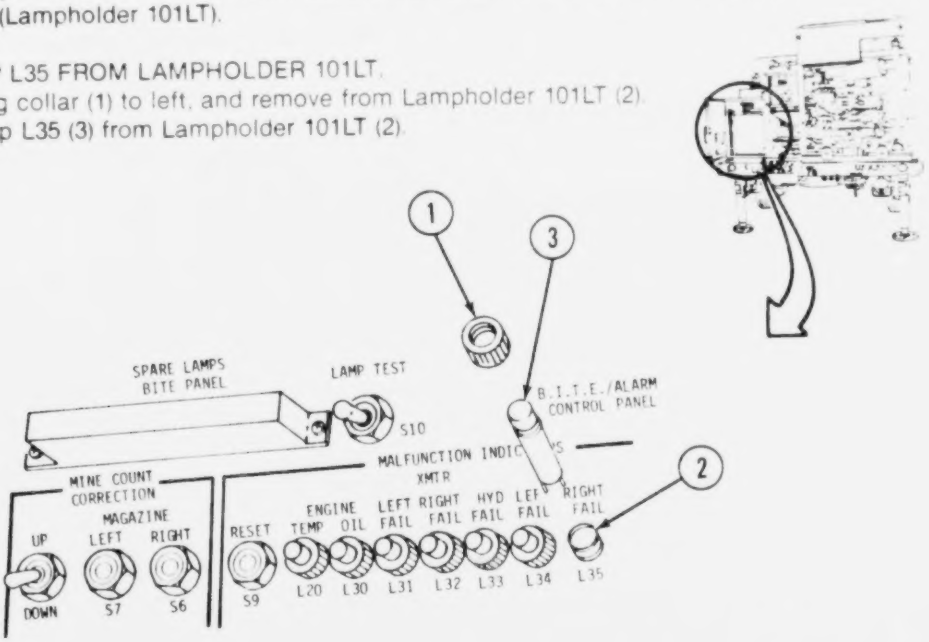
NOTE

B.I.T.E. ALARM panel assembly lamps are placarded L1 thru L92 on face of BACP. B.I.T.E. ALARM panel assembly lampholders are placarded 8LT thru 113LT on rear of BACP. (See FO-11 B.I.T.E. ALARM Panel Assembly Wiring Diagram.)

• • • •

Lamps are removed from lampholders the same way. Step 3 shows Lamp L35 (Lampholder 101LT).

3. REMOVE LAMP L35 FROM LAMPHOLDER 101LT.
   - Turn retaining collar (1) to left, and remove from Lampholder 101LT (2).
   - Remove Lamp L35 (3) from Lampholder 101LT (2).



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P. LAMPS AND LAMPHOLDERS REMOVAL — Continued

NOTE

Circuit Card Assembly CCA17 must be removed to remove the following lampholders:

9LT
10LT
23LT
26LT
25LT
27LT
104LT
105LT
106LT
107LT

4. REMOVE CIRCUIT CARD ASSEMBLY CCA17 FROM DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-245.)

NOTE

Diode board must be removed to remove the following lampholders:

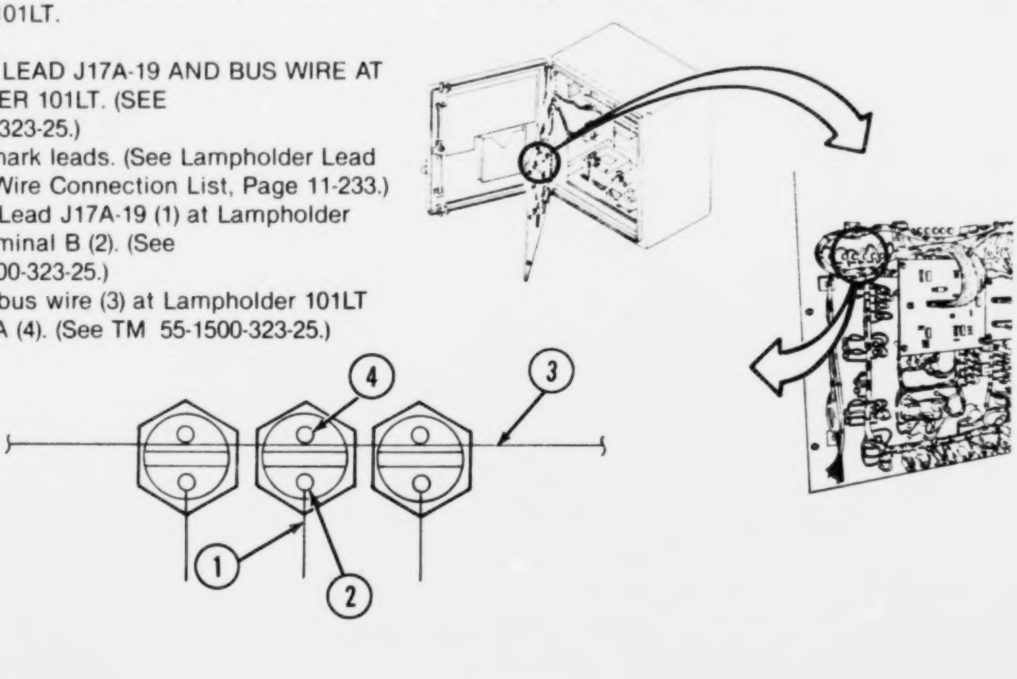
11LT
12LT
13LT
14LT
15LT
16LT

5. REMOVE DIODE BOARD FROM DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-247.)

NOTE

Lampholders have two Terminals: A and B. Individual leads are soldered at Terminal B of each lampholder. Bus wire is soldered at Terminal A of each lampholder except 8LT, 9LT, and 10LT. Lampholders 8LT, 9LT, and 10LT have individual leads soldered at their Terminal A. Lampholder 27LT has both an individual lead and a bus wire soldered at Terminal A. Leads and bus wires are unsoldered at lampholders the same way. Step 6 shows Lampholder 101LT.

6. UNSOLDER LEAD J17A-19 AND BUS WIRE AT LAMPHOLDER 101LT. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See Lampholder Lead and Bus Wire Connection List, Page 11-233.)
   - Unsolder Lead J17A-19 (1) at Lampholder 101LT Terminal B (2). (See TM 55-1500-323-25.)
   - Unsolder bus wire (3) at Lampholder 101LT Terminal A (4). (See TM 55-1500-323-25.)



LAMPHOLDER LEAD AND BUS WIRE CONNECTION LIST

Lampholder	Terminal A Lead or Bus Connection	Terminal B Connection
8LT	SW14-C3-2; SW33-1	SW14-C4; JUMPER R6
9LT	P2G13; P2J13	P16-34; P2-U9
10LT	P16-1: P16-2	P16-32; P2-B10
11LT	Bus	P2-010; P 16-48
12LT	Bus	P2-S13; P 16-46
13LT	Bus	P2-P1; P 16-44
14LT	Bus	P2-T2; P16-42
15LT	Bus	P2-R4; P16-40
16LT	Bus	P2-R2; P16-38
17LT	Bus	P2-T4; P16-36
18LT	Bus	P2-S5; P16-49
19LT	Bus	P2-02; P16-47
20LT	Bus	P2-S1; P16-45
21LT	Bus	P2-012; P16-43
22LT	Bus	P2-T6; P16-41
23LT	Bus	P2-R6; P16-39
25LT	Bus	P2-R10; P16-35
26LT	Bus	P2-R12; P16-33
27LT	P2-L15; Bus	P2-R14; P16-31
28LT	Bus	P2-P3; P16-29
29LT	Bus	P2-P5; P16-27
30LT	Bus	P2-P7; P16-25
31LT	Bus	P2-P9; P16-23
32LT	Bus	P2-C11; P16-21
33LT	Bus	P2-08; P16-19
34LT	Bus	P2-A11; P16-17
35LT	Bus	P2-F10; P16-15
36LT	Bus	P2-04; P16-13
37LT	Bus	P2-S3; P16-11
38LT	Bus	P2-B4; P16-9
39LT	Bus	P2-E5; P16-7
40LT	Bus	P2-06; P16-5
41LT	Bus	P2-E9; P16-3
43LT	Bus	P2-C13; P17-46
44LT	Bus	P2-C7; P17-44
45LT	Bus	P2-D6; P17-42
46LT	Bus	P2-E11; P17-40
48LT	Bus	P2-C15; P17-36
49LT	Bus	P2-C1; P17-34
50LT	Bus	P2-B6; P17-32
51LT	Bus	P2-T8; P17-30
52LT	Bus	P2-T10; P17-28
53LT	Bus	P2-T12; P17-26
54LT	Bus	P2-T14; P17-24
55LT	Bus	P2-N1; P17-22
56LT	Bus	P2-M14; P17-20

GO TO NEXT PAGE

P. LAMPS AND LAMPHOLDERS REMOVAL — Continued

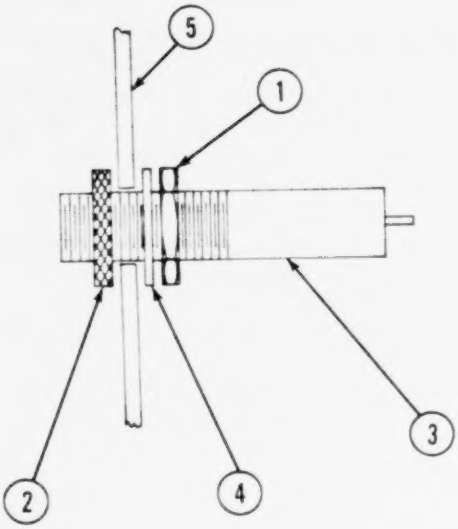
LAMPHOLDER LEAD AND BUS WIRE CONNECTION LIST—Continued

Lampholder	Terminal A Lead or Bus Connection	Terminal B Connection
57LT	Bus	P2-M10; P17-18
58LT	Bus	P2-M8; P17-16
59LT	Bus	P2-M12; P17-14
60LT	Bus	P2-A13; P17-12
61LT	Bus	P2-D2; P17-10
62LT	Bus	P2-E13; P17-8
63LT	Bus	P2-G5; P17-6
64LT	Bus	P2-K2; P17-4
65LT	Bus	P2-E7; P17-2
66LT	Bus	P2-E1; P17-47
67LT	Bus	P2-F14; P17-45
68LT	Bus	P2-F12; P17-43
69LT	Bus	P2-F6; P17-41
70LT	Bus	P2-F2; P17-39
71LT	Bus	P2-F4; P17-37
72LT	Bus	P2-E15; P17-35
73LT	Bus	P2-H6; P17-33
74LT	Bus	P2-H4; P17-31
75LT	Bus	P2-H2; P17-29
76LT	Bus	P2-G11; P17-27
77LT	Bus	P2-G9; P17-25
78LT	Bus	P2-G7; P17-23
79LT	Bus	P2-M6; P17-21
80LT	Bus	P2-M4; P17-19
81LT	Bus	P2-M2; P17-17
82LT	Bus	P2-L3; P17-15
83LT	Bus	P2-L1; P17-13
84LT	Bus	P2-K4; P17-11
85LT	Bus	P2-G3; P17-9
86LT	Bus	P2-G1; P17-7
87LT	Bus	P2-J3; P17-5
88LT	Bus	P2-J1; P17-3
100LT	Bus	J17A-10
101LT	Bus	J17A-19
102LT	Bus	J17A-16
103LT	Bus	J17A-20
104LT	Bus	J17A-7
105LT	Bus	J17A-9
106LT	Bus	J17A-25
107LT	Bus	J17A-28
108LT	Bus	J17A-23
109LT	Bus	J17A-22
110LT	Bus	J17A-8
111LT	Bus	J17A-27
112LT	Bus	J17A-24
113LT	Bus	J17A-26

NOTE

All lampholders on B.I.T.E. ALARM panel assembly are removed the same way. Step 7 shows Lampholder 101LT. If you are replacing more than one lampholder, you must increase the lampholder parts listed in Initial Setup

7. REMOVE LAMPHOLDER 101LT FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Loosen nut (1). Use 1/2 inch open end wrench.
   - Remove nut (2) from Lampholder 101LT (3).
   - Remove Lampholder 101LT (3), lock washer (4), and nut (1) from rear of panel assembly (5). Discard lock washer.



Q. LAMPS AND LAMPHOLDERS INSTALLATION

NOTE

B.I.T.E. ALARM panel assembly lamps are placarded L1 thru L92 on face of BACP. B.I.T.E. ALARM panel assembly lampholders are placarded 8LT thru 113LT on rear of BACP. (See F0-11 B.I.T.E. ALARM Panel Assembly Wiring Diagram.)

• • • •

All lampholders on B.I.T.E. ALARM panel assembly are installed the same way. Steps 1 and 2 show Lampholder 101LT. If you are replacing more than one lampholder, you must increase the lampholder parts in Initial Setup.

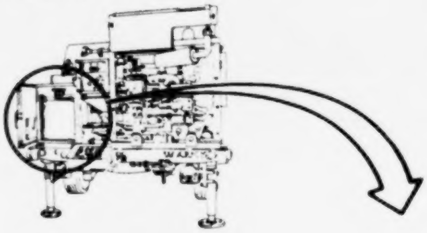
GO TO NEXT PAGE

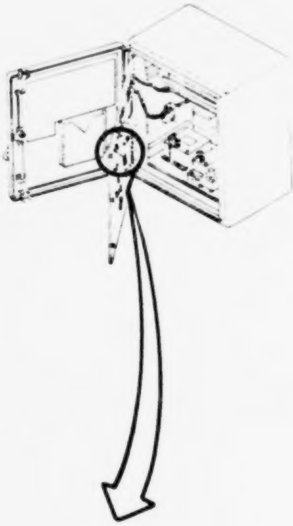
Q. LAMPS AND LAMPHOLDERS INSTALLATION — Continued

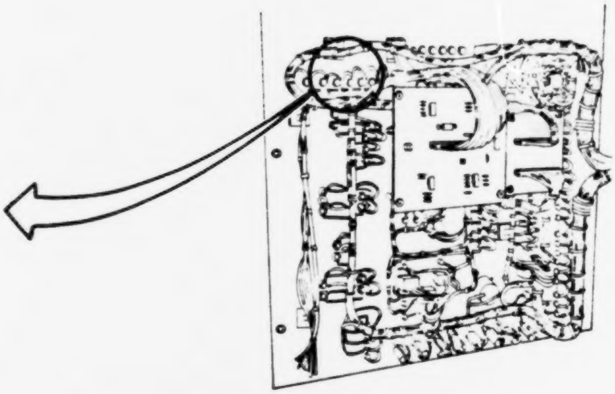
NOTE

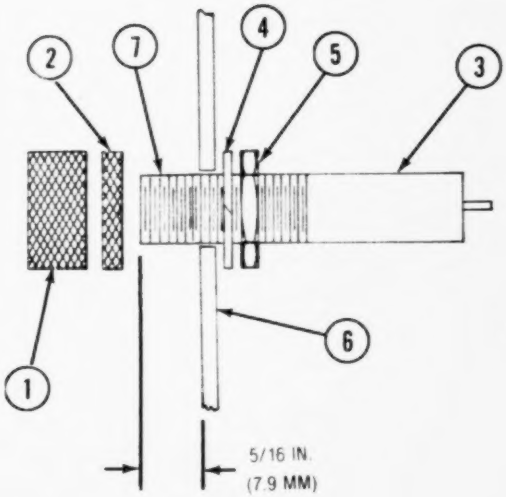
If installing old lampholder, go to step 2.

1. INSTALL NEW LAMPHOLDER 101LT ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Remove collar (1) and nut (2) from new Lampholder 101LT (3).
   - Place Lampholder 101LT (3) with lock washer (4) and nut (5) on panel assembly (6), from rear of panel assembly.
   - Turn nut (5) until 5/16 in. (7.9 mm) of threads (7) extend from front of panel assembly (6). Use steel rule.
   - Install nut (2) on Lampholder 101LT (3).
   - Tighten nut (5). Use 1/2 inch open end wrench.
   - Go to step 3.

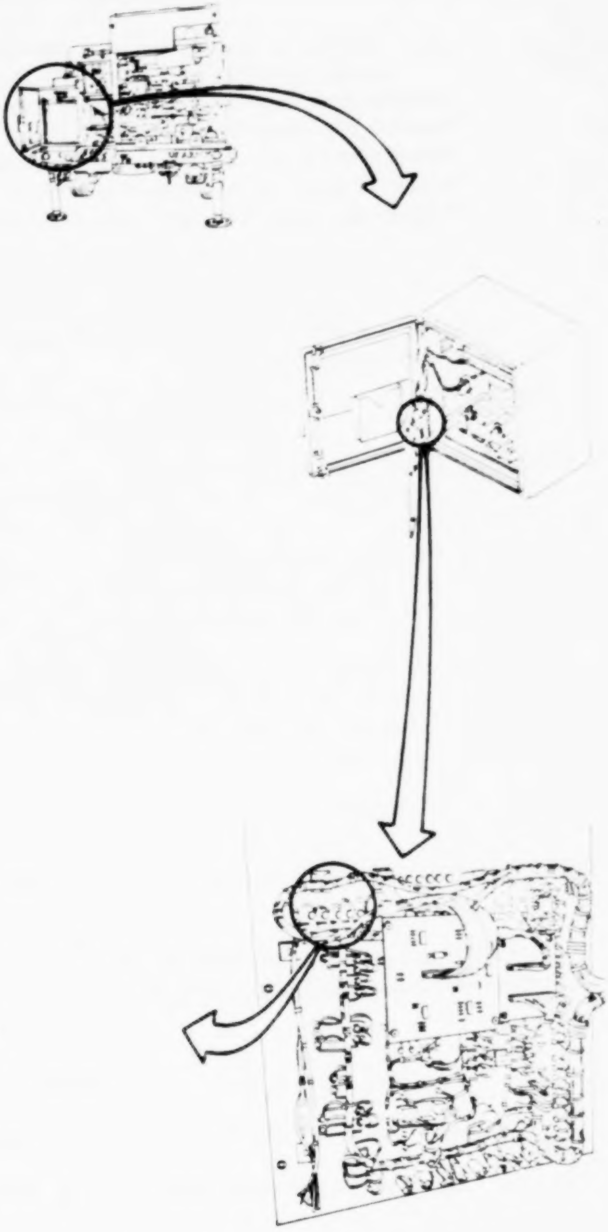


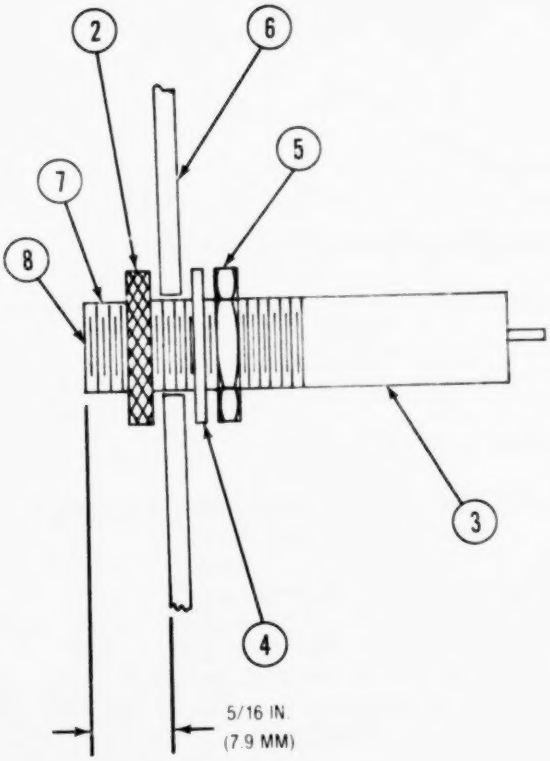






2. INSTALL OLD LAMPHOLDER 101LT ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Place new lock washer (4) on shaft (8).
   - Place old Lampholder 101LT (3) with lock washer (4) and nut (5) on panel assembly (6) from rear of panel.
   - Turn nut (5) until 5/16 in. (7.9 mm) of threads (7) extend from front of panel assembly (6). Use steel rule.
   - Install nut (2) on Lampholder 101LT (3).
   - Tighten nut (5). Use 1/2 inch open end wrench.





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Q. LAMPS AND LAMPHOLDERS INSTALLATION — Continued

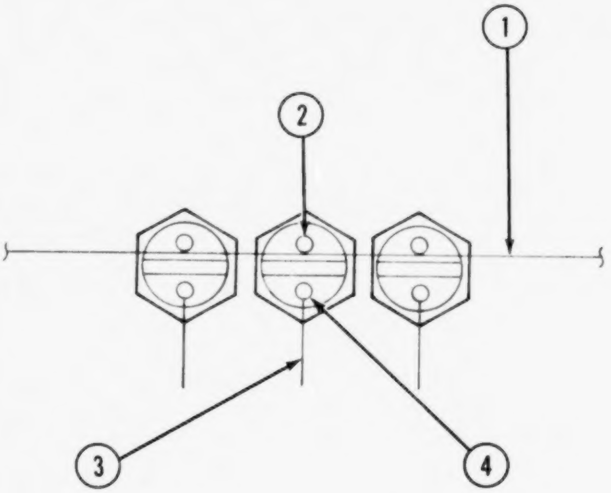
NOTE

Lampholders have two Terminals: A and B. Individual leads are soldered at Terminal B of each lampholder. Bus wire is soldered at Terminal A of each lampholder except 8LT, 9LT, and 10LT. Lampholdfers 8LT, 9LT, and 10LT have individual leads soldered at their Terminal A. Lampholder 27LT has both an individual lead and a bus wire soldered at Terminal A.

• • • •

Leads and bus wire are soldered at lampholders the same way. Step 3 shows Lampholder 101LT.

3. SOLDER BUS WIRE AND LEAD J17A-19 AT LAMPHOLDER 101LT. (SEE TM 55-1500-323-25.)
   - Solder bus wire (1) at Lampholder 101LT Terminal A (2). (See TM 55-1500-323-25 and Lampholder Lead and Bus Wire Connection List, Page 11-233.)
   - Solder Lead J17A-19 (3) at Lampholder 101LT Terminal B (4). (See TM 55-1500-323-25 and Lampholder Lead and Bus Wire Connection List, Page 11-233.)



NOTE

If Diode Board was not removed, go to step 5.

4. INSTALL DIODE BOARD ON DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-248.)

NOTE

If Circuit Card Assembly CCA17 was not removed, go to step 6.

5. INSTALL CIRCUIT CARD ASSEMBLY CCA17 ON DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY PAGE 11-246.)

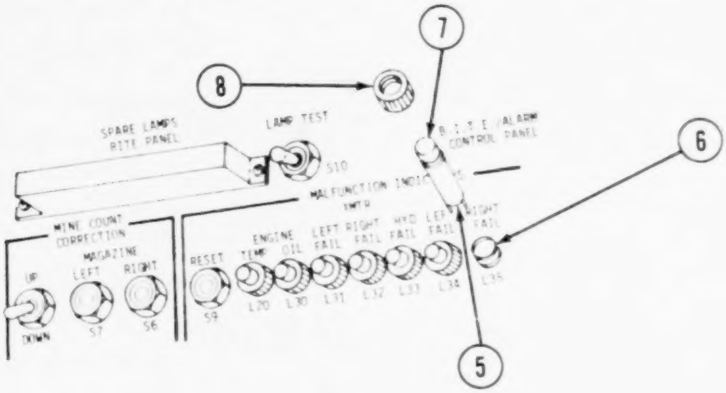
CAUTION

Lamp terminals will bend if not alined in lampholder during installation. Use enough light to see that lamp terminals are alined in lampholder before pushing in lamp.

NOTE

Lamps are installed in lampholders the same way. Step 6 shows Lamp L35 (Lampholder 101LT.)

6. INSTALL LAMP L35 IN LAMPHOLDER 101LT.
   - Aline two terminals (5) with terminal holes in Lampholder 101LT (6).
   - Push Lamp L35 (7) in Lampholder 101LT (6).
   - Install retaining collar (8) on Lampholder 101LT (6).



NOTE

If B.I.T.E./ALARM CONTROL PANEL cover was not removed, go to step 8.

7. INSTALL B.I.T.E./ALARM CONTROL PANEL COVER ON B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

8. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

GO TO NEXT PAGE

11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

R. CONNECTOR RECEPTACLES P16, P17, AND J17A REMOVAL

NOTE

PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)

Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)

Open BITE Panel Door. (See TM 9-1095-205-10.)

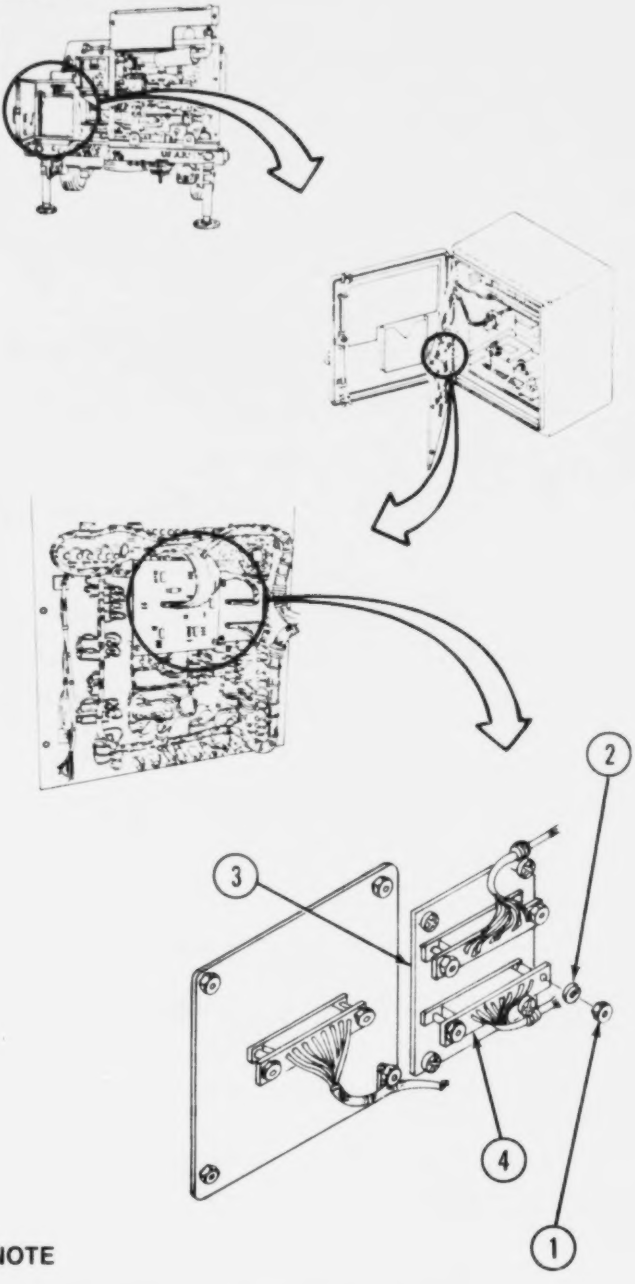
1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

2. REMOVE B.I.T.E./ALARM CONTROL PANEL COVER FROM B.I.T.E. ALARM CONTROL PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

NOTE

Connector Receptacles P16, P17, and J17A are disconnected the same way. Step 3 shows Connector Receptacle P17. If you replace more than one connector receptacle, you must increase the connector receptacle parts listed in Initial Setup.

3. REMOVE CONNECTOR RECEPTACLE P17 FROM DIODE BOARD.
   - Remove two nuts (1) and lock washers (2) from diode board (3). Use 5/16 inch socket with 5 inch extension and ratchet handle. Discard lock washers.
   - Pull Connector Receptacle P17 (4) from diode board (3).

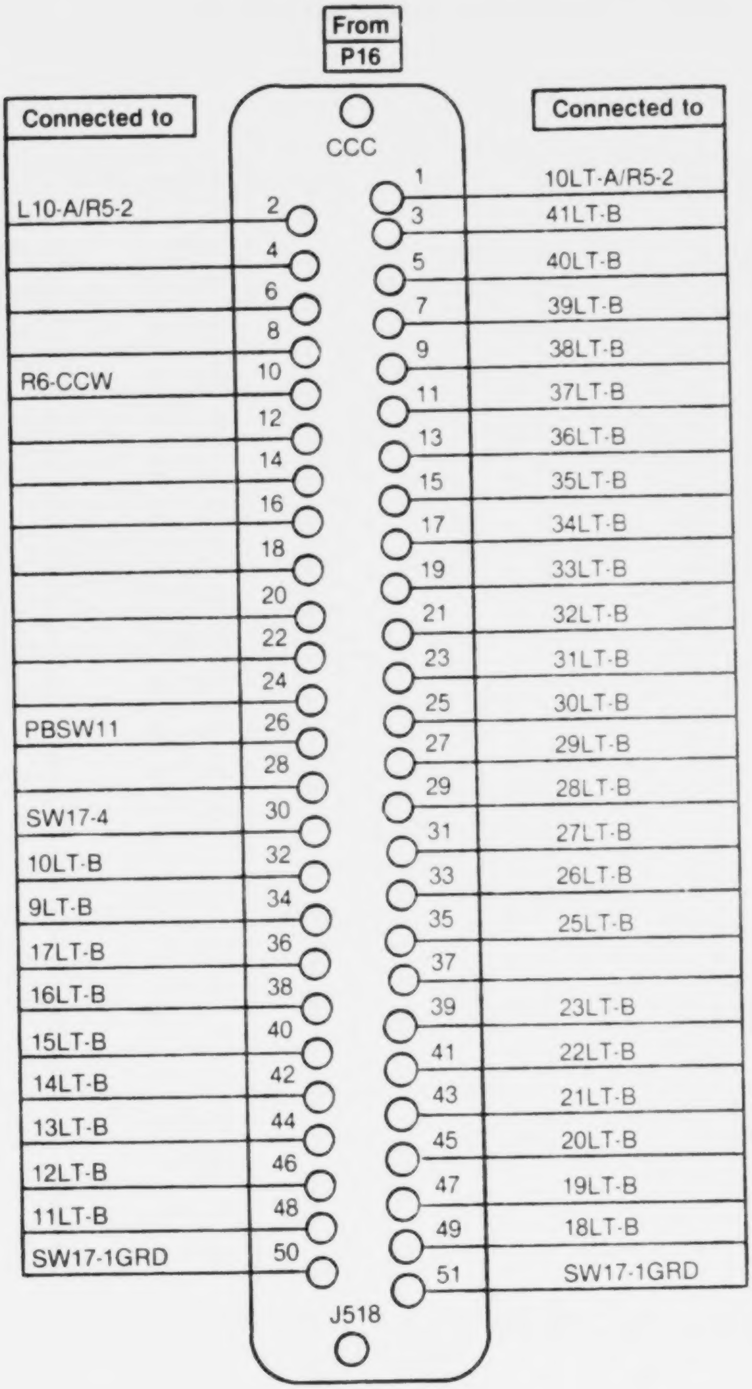


NOTE

Socket contacts are unsoldered at Connector Receptacles P16, P17, and J17A the same way. Do not unsolder socket contacts unless required for maintenance.

4. UNSOLDER SOCKET CONTACTS AT CONNECTOR RECEPTACLE. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See Connectors and Receptacle P16, P17, and J17A Wiring Connection Lists, Pages 11-241 thru 11-243.)
   - Unsolder socket contacts at connector receptacle. (See TM 55-1500-323-25.)

CONNECTOR P16 WIRING CONNECTION LIST

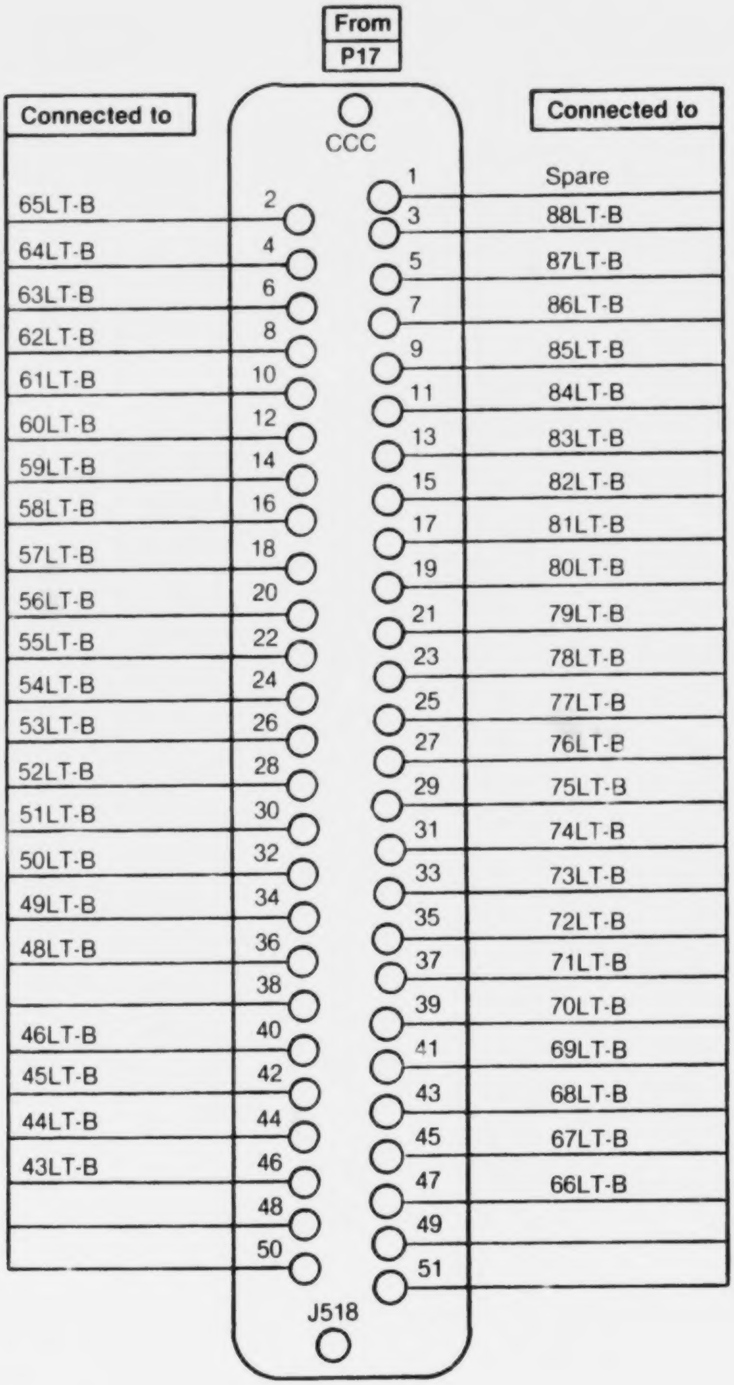


Connected to	From P16	From P16	Connected to
L10-A/R5-2	2	1	10LT-A/R5-2
	4	3	41LT-B
	6	5	40LT-B
	8	7	39LT-B
R6-CCW	10	9	38LT-B
	12	11	37LT-B
	14	13	36LT-B
	16	15	35LT-B
	18	17	34LT-B
	20	19	33LT-B
	22	21	32LT-B
	24	23	31LT-B
PBSW11	26	25	30LT-B
	28	27	29LT-B
SW17-4	30	29	28LT-B
10LT-B	32	31	27LT-B
9LT-B	34	33	26LT-B
17LT-B	36	35	25LT-B
16LT-B	38	37	
15LT-B	40	39	23LT-B
14LT-B	42	41	22LT-B
13LT-B	44	43	21LT-B
12LT-B	46	45	20LT-B
11LT-B	48	47	19LT-B
SW17-1GRD	50	49	18LT-B
		51	SW17-1GRD

GO TO NEXT PAGE

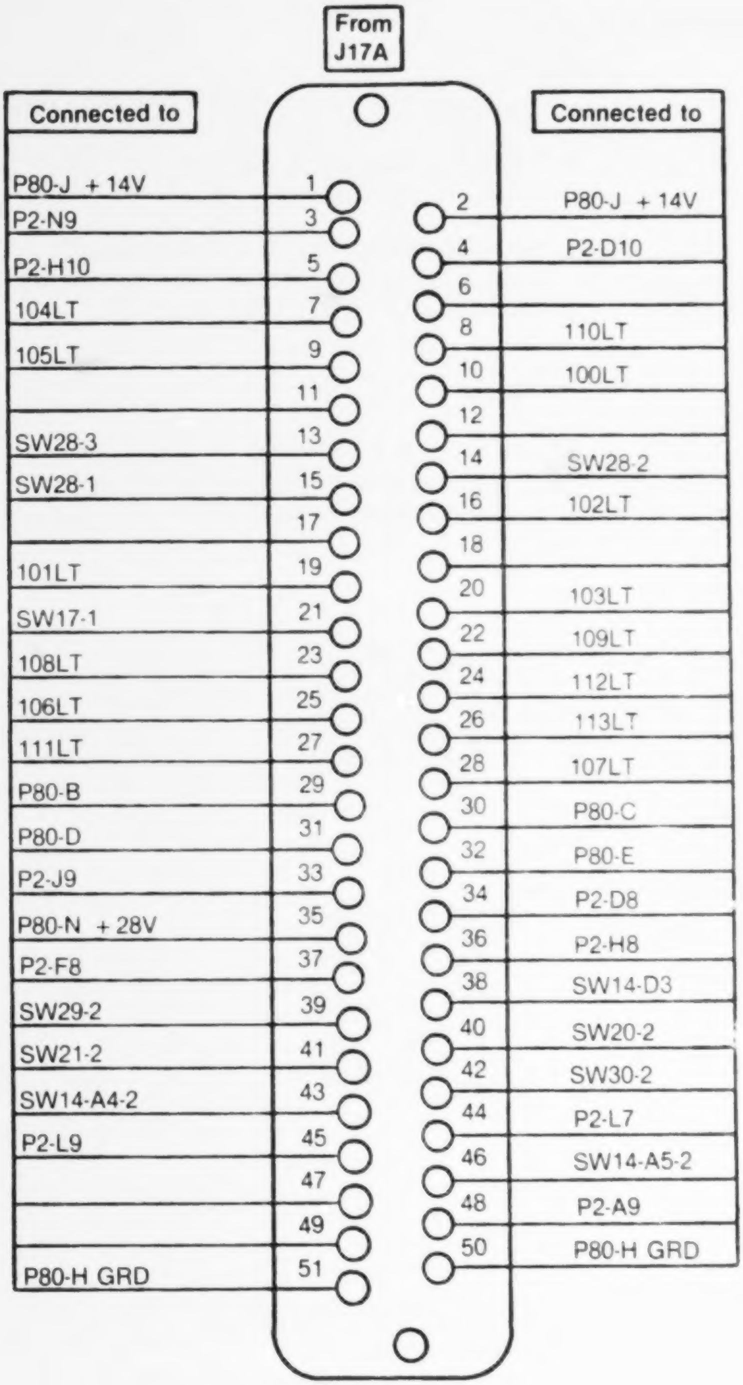
R. CONNECTOR RECEPTACLES P16, P17, AND J17A REMOVAL — Continued

CONNECTOR P17 WIRING CONNECTION LIST



Connected to			Connected to
		1	Spare
65LT-B	2	3	88LT-B
64LT-B	4	5	87LT-B
63LT-B	6	7	86LT-B
62LT-B	8	9	85LT-B
61LT-B	10	11	84LT-B
60LT-B	12	13	83LT-B
59LT-B	14	15	82LT-B
58LT-B	16	17	81LT-B
57LT-B	18	19	80LT-B
56LT-B	20	21	79LT-B
55LT-B	22	23	78LT-B
54LT-B	24	25	77LT-B
53LT-B	26	27	76LT-B
52LT-B	28	29	75LT-B
51LT-B	30	31	74LT-B
50LT-B	32	33	73LT-B
49LT-B	34	35	72LT-B
48LT-B	36	37	71LT-B
	38	39	70LT-B
46LT-B	40	41	69LT-B
45LT-B	42	43	68LT-B
44LT-B	44	45	67LT-B
43LT-B	46	47	66LT-B
	48	49	
	50	51	

RECEPTACLE J17A WIRING CONNECTION LIST



Connected to	From J17A	From J17A	Connected to
P80-J +14V	1	2	P80-J +14V
P2-N9	3	4	P2-D10
P2-H10	5	6	
104LT	7	8	110LT
105LT	9	10	100LT
	11	12	
SW28-3	13	14	SW28-2
SW28-1	15	16	102LT
	17	18	
101LT	19	20	103LT
SW17-1	21	22	109LT
108LT	23	24	112LT
106LT	25	26	113LT
111LT	27	28	107LT
P80-B	29	30	P80-C
P80-D	31	32	P80-E
P2-J9	33	34	P2-D8
P80-N +28V	35	36	P2-H8
P2-F8	37	38	SW14-D3
SW29-2	39	40	SW20-2
SW21-2	41	42	SW30-2
SW14-A4-2	43	44	P2-L7
P2-L9	45	46	SW14-A5-2
	47	48	P2-A9
	49	50	P80-H GRD
P80-H GRD	51		

GO TO NEXT PAGE

11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

S. CONNECTOR RECEPTACLES P16, P17, AND J17A INSTALLATION

NOTE

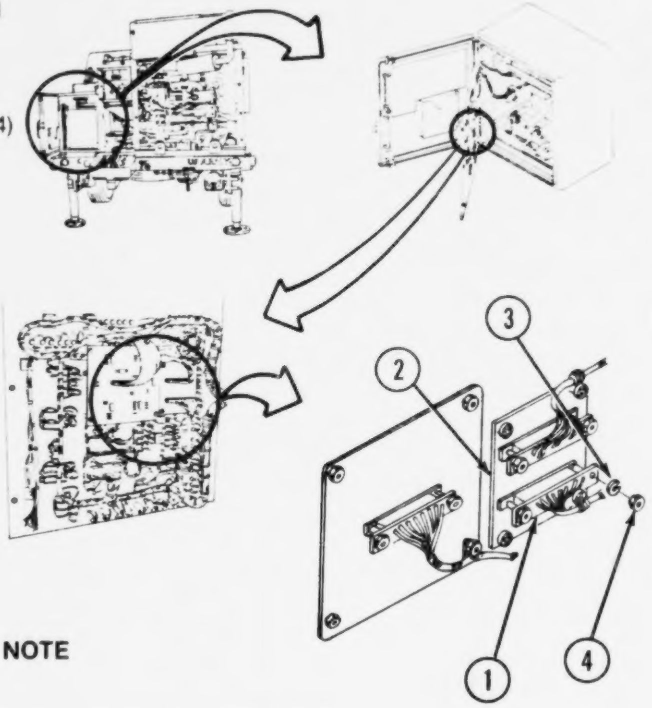
Socket contacts are soldered at Connector Receptacles P16, P17, and J17A the same way. If socket contacts were not unsoldered, go to step 2.

1. SOLDER SOCKET CONTACTS AT CONNECTOR RECEPTACLE. (SEE TM 55-1500-323-25.)
   - Solder socket contacts at connector receptacle. (See TM 55-1500-323-25 and Connectors and Receptacle P16, P17, and J17A Wiring Connection Lists, Pages 11-241 thru 11-243.)
   - Remove tags from leads.

NOTE

Connector Receptacles P16, P17, and J17A are installed the same way. Step 2 shows Connector Receptacle P17. If you replace more than one connector receptacle, you must increase the connector receptacle parts listed in Initial Setup.

2. INSTALL CONNECTOR RECEPTACLE P17 ON DIODE BOARD.
   - Push Connector Receptacle P17 (1) onto diode board (2).
   - Install two new lock washers (3) and nuts (4) on diode board (2). Use 5/16 inch socket with 5 inch extension and ratchet handle.
3. INSTALL B.I.T.E./ALARM CONTROL PANEL COVER ON B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)
4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)



NOTE

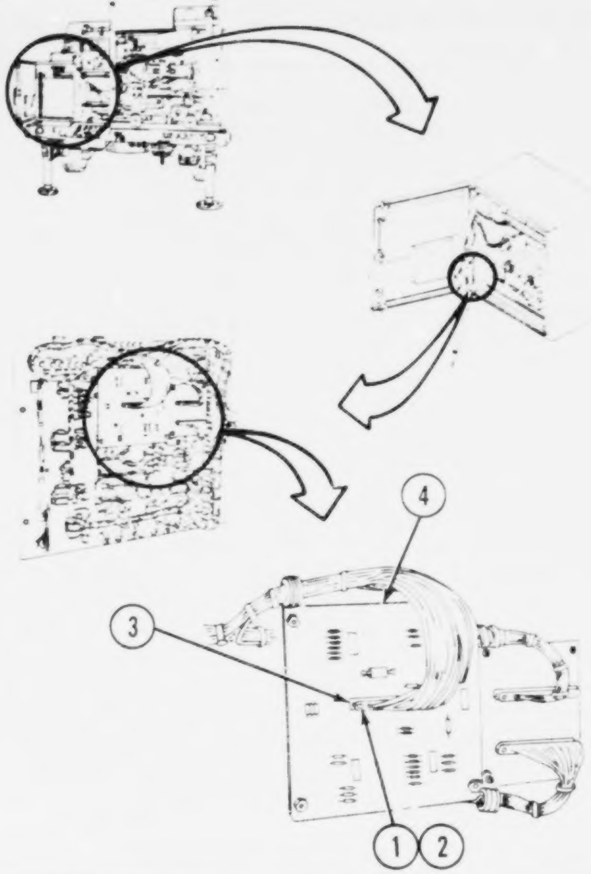
FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

T. CIRCUIT CARD ASSEMBLY CCA17 REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)



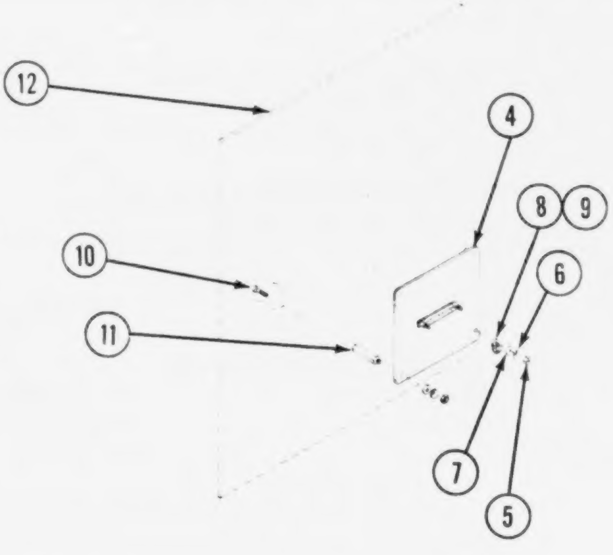
1. OPEN B.I.T.E. ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

2. REMOVE B.I.T.E./ALARM CONTROL PANEL COVER FROM B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

3. DISCONNECT CONNECTOR RECEPTACLE J17A FROM CIRCUIT CARD ASSEMBLY CCA17.
   - Remove two nuts (1) and lock washers (2) from Connector Receptacle J17A (3). Use 5/16 inch socket with 5 inch extension and ratchet handle. Discard lock washers.
   - Pull Connector Receptacle J17A (3) from Assembly CCA17 (4).

NOTE

Do not remove standoffs from panel assembly unless required for maintenance.



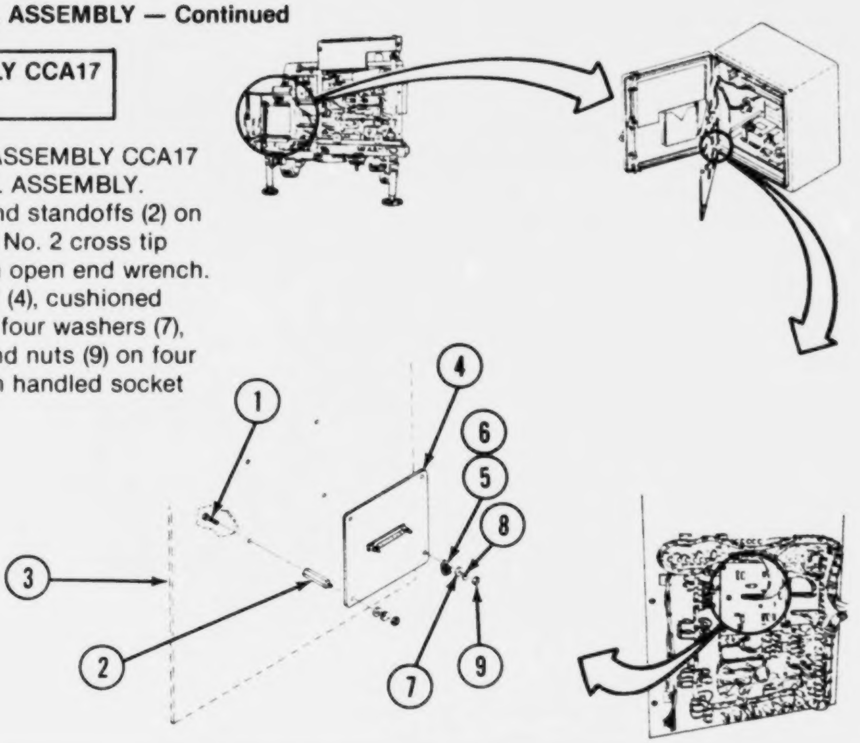
4. REMOVE CIRCUIT CARD ASSEMBLY CCA17 FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Remove four nuts (5), lock washers (6), washers (7), cushioned clamp (8) with leads (9), and Assembly CCA17 (4) from four screws (10). Use 5/16 inch handled socket wrench. Discard lock washers.
   - Remove four standoffs (11) and screws (10) from panel assembly (12). Use No. 2 cross tip screwdriver and 1/4 inch open end wrench.

GO TO NEXT PAGE

11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

U. CIRCUIT CARD ASSEMBLY CCA17 INSTALLATION

1. INSTALL CIRCUIT CARD ASSEMBLY CCA17 ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Install four screws (1) and standoffs (2) on panel assembly (3). Use No. 2 cross tip screwdriver and 1/4 inch open end wrench.
   - Install Assembly CCA17 (4), cushioned clamp (5) with leads (6), four washers (7), new lock washers (8), and nuts (9) on four screws (1). Use 5/16 inch handled socket wrench.



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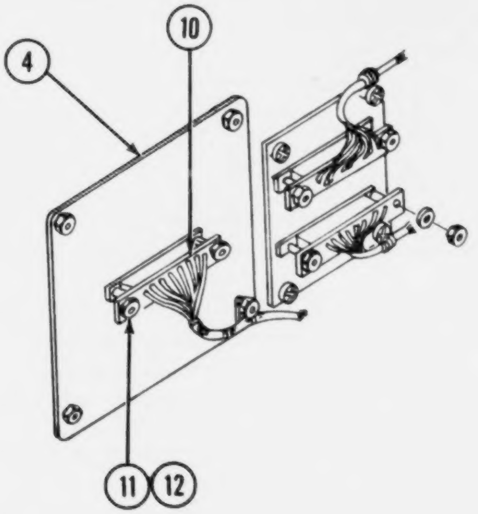
2. CONNECT CONNECTOR RECEPTACLE J17A TO CIRCUIT CARD ASSEMBLY CCA17.
   - Push Connector Receptacle J17A (10) on Assembly CCA17 (4).
   - Install two new lock washers (11) and nuts (12) on Connector Receptacle J17A (10). Use 5/16 inch socket with 5 inch extension and ratchet handle.



3. INSTALL B.I.T.E./ALARM CONTROL PANEL COVER ON B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

4. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

V. DIODE BOARD REMOVAL

NOTE

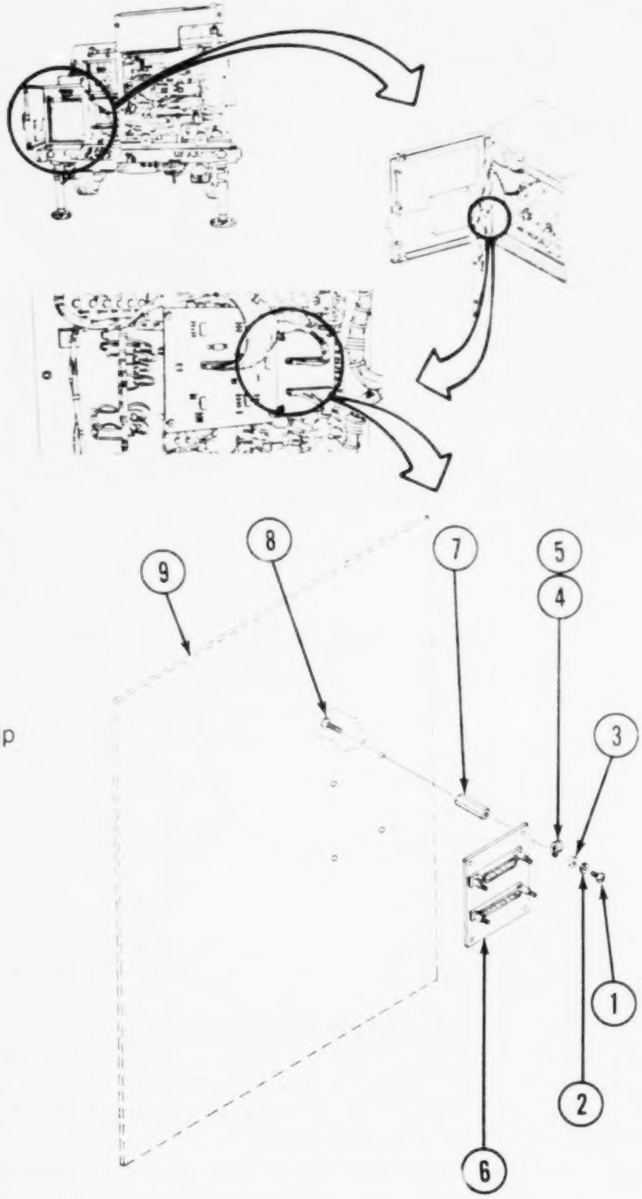
PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)
2. REMOVE B.I.T.E./ALARM CONTROL PANEL COVER FROM B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)
3. REMOVE CONNECTOR RECEPTACLE P17 FROM DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-240.)
4. REMOVE CONNECTOR RECEPTACLE P16 FROM DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-240.)

NOTE

Do not remove standoffs from panel assembly unless required for maintenance.

5. REMOVE DIODE BOARD FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Remove four screws (1), lock washers (2), washers (3), two cushioned clamps (4) with leads (5), and diode board (6) from four standoffs (7). Use No. 2 cross tip screwdriver. Discard lock washers.
   - Remove four screws (8) and standoffs (7) from panel assembly (9). Use No. 2 cross tip screwdriver and 1/4 inch open end wrench.



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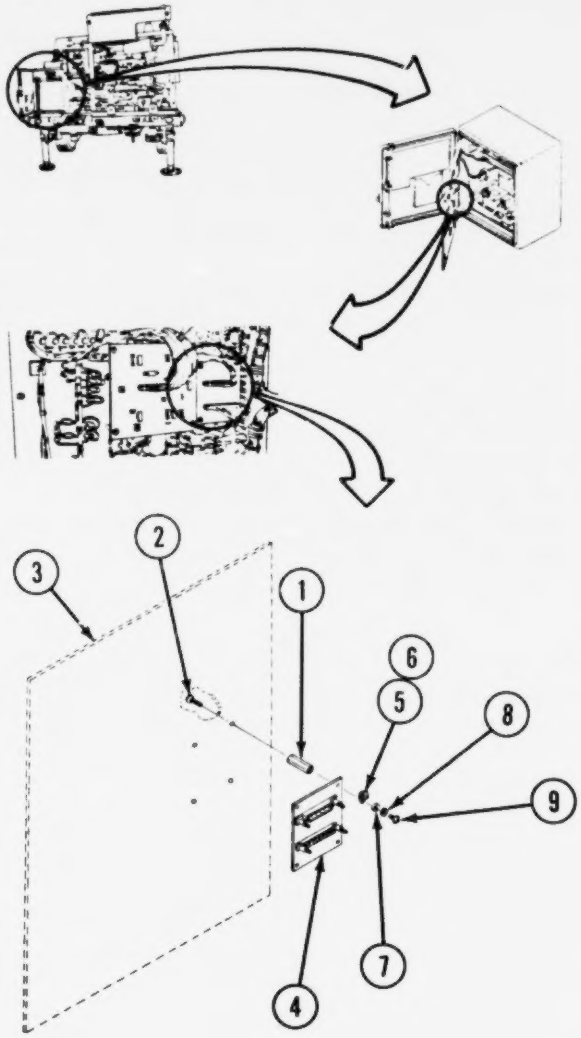
11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

W. DIODE BOARD INSTALLATION

1. INSTALL DIODE BOARD ON B.I.T.E ALARM PANEL ASSEMBLY.
   - Install four standoffs (1) and screws (2) on panel assembly (3). Use No. 2 cross tip screwdriver and 1/4 inch open end wrench.
   - Install diode board (4), two cushioned clamps (5) with leads (6), four washers (7), new lock washers (8), and screws (9) on four standoffs (1). Use No. 2 cross tip screwdriver.
2. INSTALL CONNECTOR RECEPTACLE P17 ON DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-244.)
3. INSTALL CONNECTOR RECEPTACLE P16 ON DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-244.)
4. INSTALL B.I.T.E./ALARM CONTROL PANEL COVER ON B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)
5. CLOSE B.I.T.E./ALARM CONTROL PANEL. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)



NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

X. MILLIAMPERE METER AND METER SAVER REMOVAL

NOTE

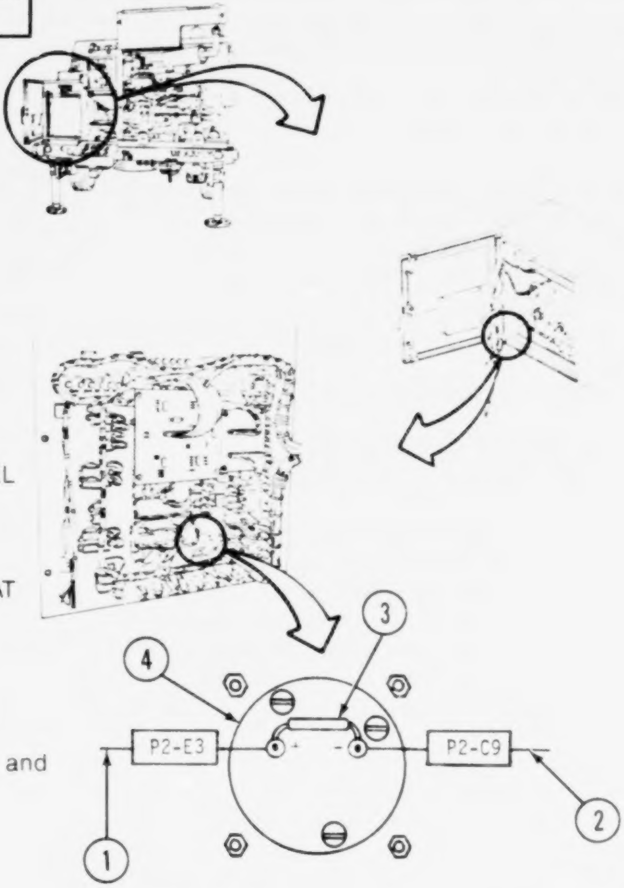
PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

2. REMOVE B.I.T.E./ALARM CONTROL PANEL COVER FROM B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

3. UNSOLDER LEADS AND METER SAVER AT MILLIAMPERE METER. (SEE TM 55-1500-323-25.)
   - Tag and mark leads. (See following Milliampere Meter Lead Identification Diagram.)
   - Unsolder Lead P2-E3 (1), Lead P2-C9 (2), and meter saver (3) at meter (4). (See TM 55-1500-323-25.)



Milliampere Meter Lead Identification Diagram

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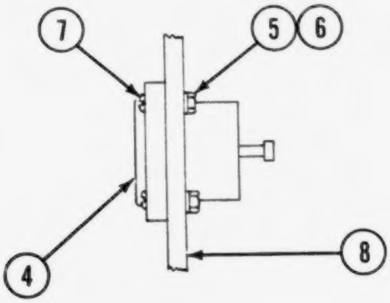
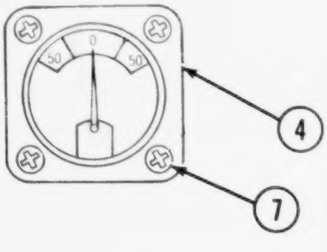
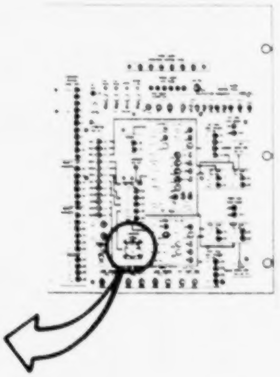
4. REMOVE MILLIAMPERE METER FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Remove four nuts (5), lock washers (6), screws (7), and meter (4) from panel assembly (8). Use No. 1 cross tip screwdriver and 3/16 inch handled socket wrench. Discard lock washers.







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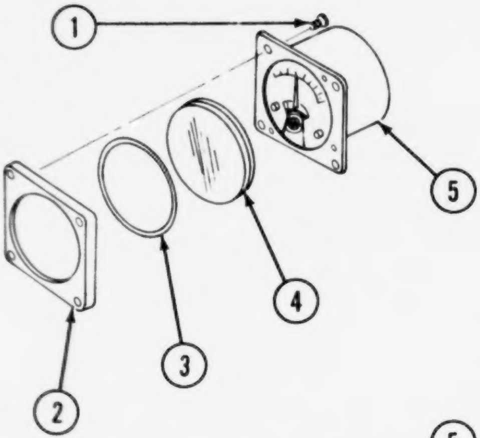
11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

Y. MILLIAMPERE METER AND METER SAVER INSTALLATION



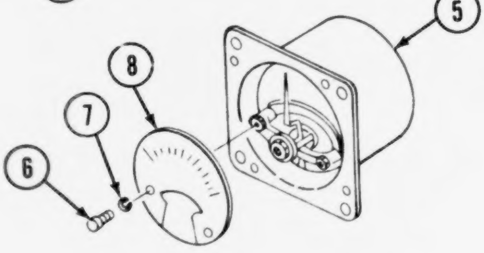
NOTE

If installing new milliampere meter, meter scale plate (MICROAMPERES) must be removed from meter. New meter scale plate (DEGREES) must then be installed.

• • • •

If installing old meter, go to step 3.

1. REMOVE METER SCALE PLATE (MICROAMPERES) FROM NEW MILLIAMPERE METER.
   - Remove four screws (1), faceplate (2), spacer (3), and lens (4) from new meter (5). Use jeweler's flat tip screwdriver.
   - Remove two screws (6), washers (7), and scale plate (MICROAMPERES) (8) from meter (5). Use 5/32 inch handled socket wrench. Discard scale plate (MICROAMPERES).



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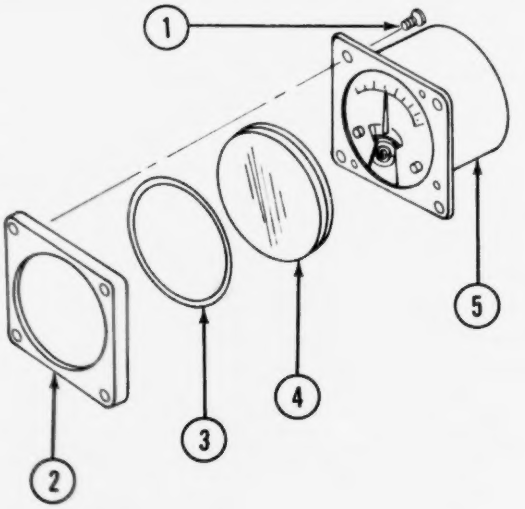
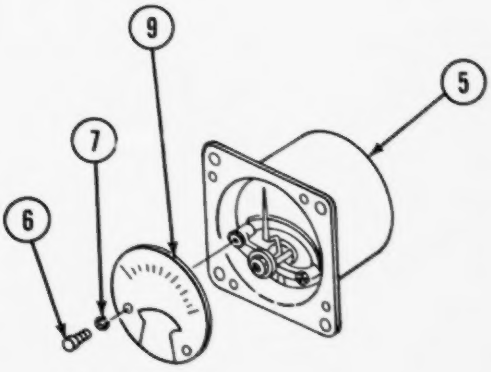
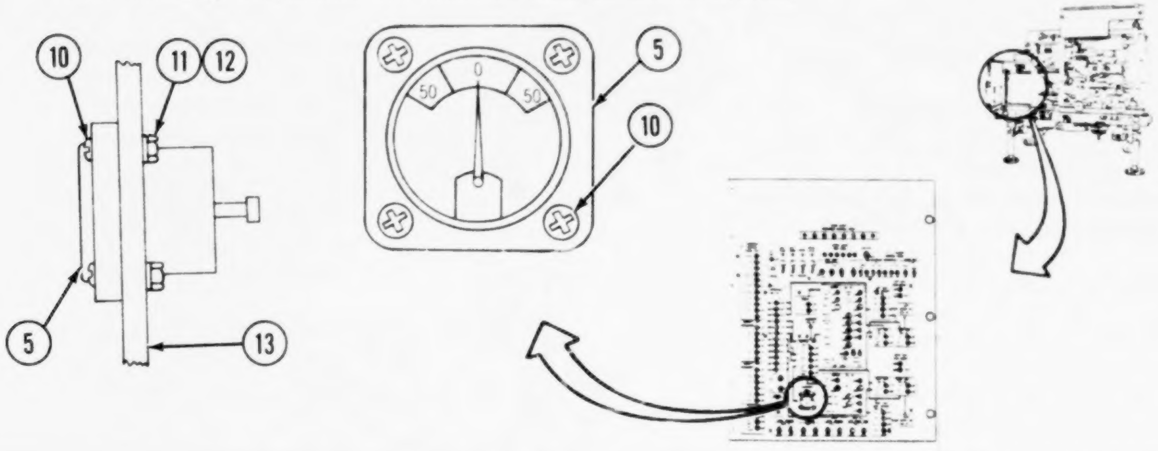
2. INSTALL NEW METER SCALE PLATE (DEGREES) ON MILLAMPERE METER.
   - Install new scale plate (DEGREES) (9), two washers (7), and screws (6) on meter (5). Use 5/32 inch handled socket wrench.
   - Install lens (4), spacer (3), faceplate (2), and four screws (1) on meter (5). Use jeweler's flat tip screwdriver.





3. INSTALL MILLIAMPERE METER ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Install meter (5), four screws (10), new lock washers (11), and nuts (12) on panel assembly (13). Use No. 1 cross tip screwdriver and 3/16 inch handled socket wrench.



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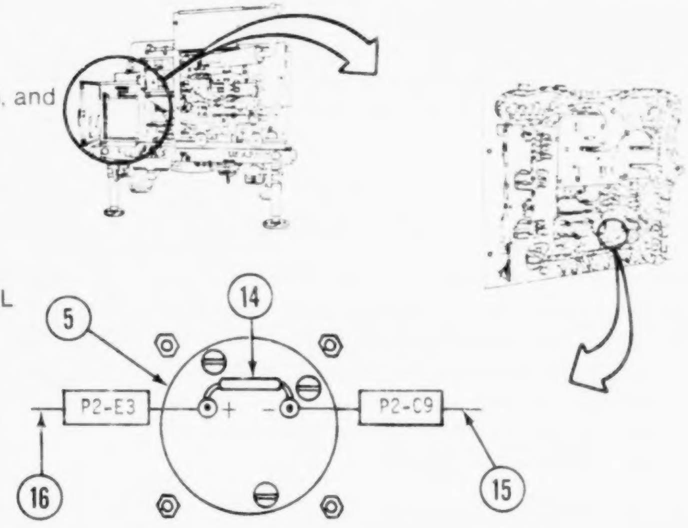
4. SOLDER LEADS AND METER SAVER AT MILLIAMPERE METER. (SEE TM 55-1500-323-25.)
   - Solder meter saver (14), Lead P2-C9 (15), and Lead P2-E3 (16) at meter (5). (See TM 55-1500-323-25 and following Milliampere Meter Lead Identification Diagram.)
   - Remove tags from leads.

5. INSTALL B.I.T.E./ALARM CONTROL PANEL COVER ON B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 9-1095-205-20.)

6. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)



Milliampere Meter Lead Identification Diagram

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

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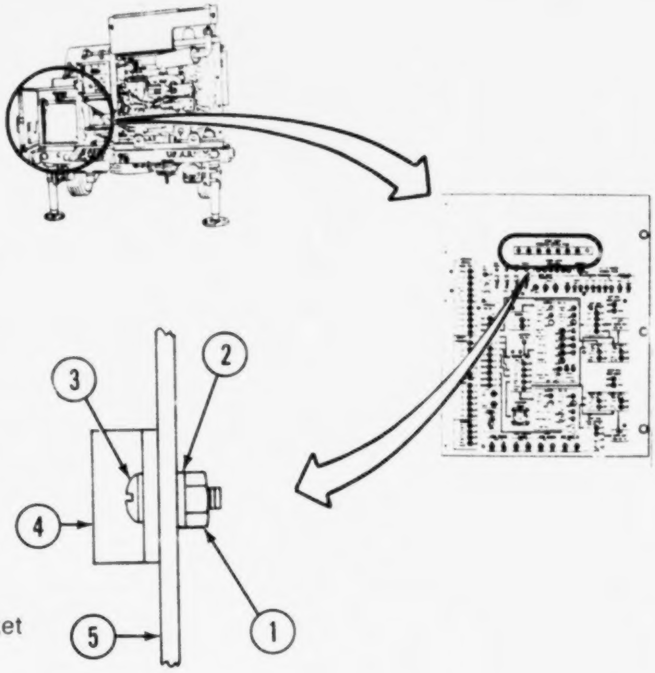
11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

Z. SPARE INDICATOR LIGHT BRACKET REMOVAL

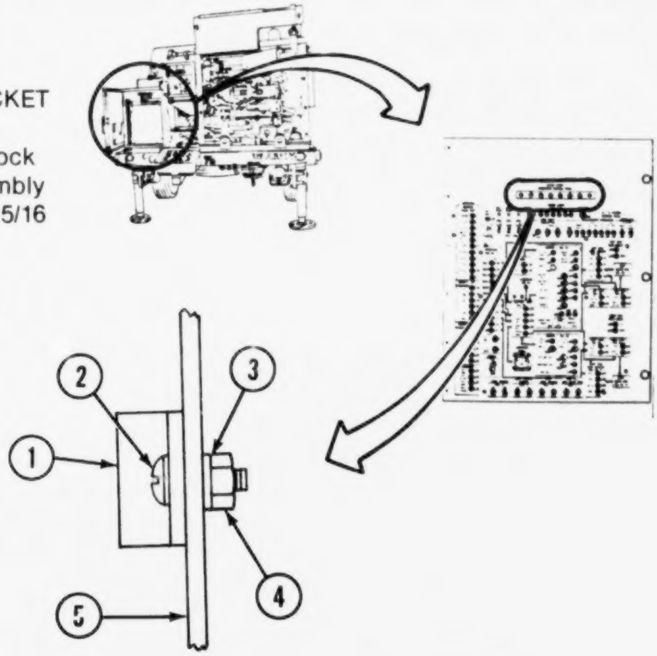


NOTE

PRELIMINARY PROCEDURES:
Open BITE Panel Door. (See TM 9-1095-205-10.)
Remove Operator's Control Panel Spare Lamps. (See TM 9-1095-205-20.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)
2. REMOVE SPARE INDICATOR LIGHT BRACKET FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Remove two nuts (1), lock washers (2), screws (3), and bracket (4) from panel assembly (5). Use No. 2 cross tip screwdriver and 5/16 inch handled socket wrench. Discard lock washers.

AA. SPARE INDICATOR LIGHT BRACKET INSTALLATION



1. INSTALL SPARE INDICATOR LIGHT BRACKET ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Install bracket (1), two screws (2), new lock washers (3), and nuts (4) on panel assembly (5). Use No. 2 cross tip screwdriver and 5/16 inch handled socket wrench.
2. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)

NOTE

FOLLOW-ON MAINTENANCE:
Install Operator's Control Panel Spare Lamps. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)

AB. PANEL FASTENER REMOVAL

NOTE

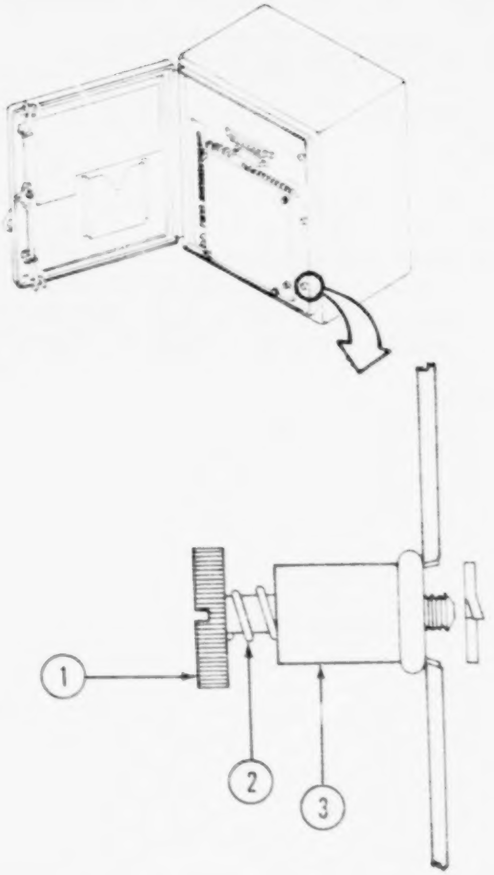
PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

NOTE

Panel fastener consists of screw, spring, retainer, and standoff. Top, middle, and bottom panel fasteners are removed the same way. Steps 1 and 2 show bottom panel fastener. If you replace two or more panel fasteners, you must increase the panel fastener parts listed in Initial Setup.

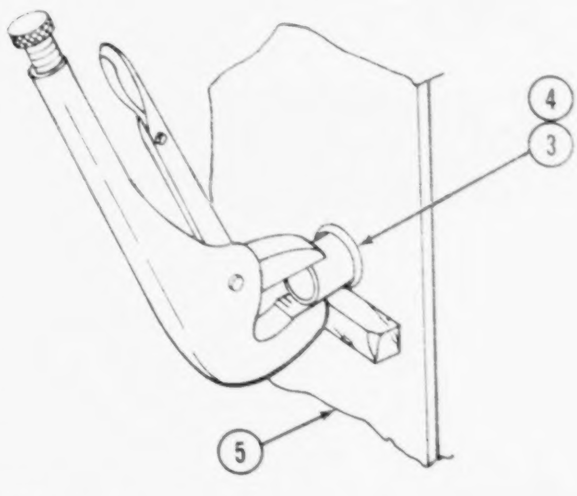
1. REMOVE SCREW FROM STANDOFF.
   - Remove screw (1), and spring (2) from standoff (3). Use 3/8 inch flat tip screwdriver and slip joint pliers. Discard screw and spring.



CAUTION

Prying against B.I.T.E./ALARM CONTROL PANEL (BACP) can damage BACP surface. Pry against wood block to avoid damage to BACP surface.

2. REMOVE STANDOFF FROM B.I.T.E. ALARM PANEL ASSEMBLY.
   - Pry standoff (3) with retainer (4) from panel assembly (5). Use straight jaw plier wrench and wood block. Discard standoff with retainer.



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11-12 B.I.T.E. ALARM PANEL ASSEMBLY — Continued

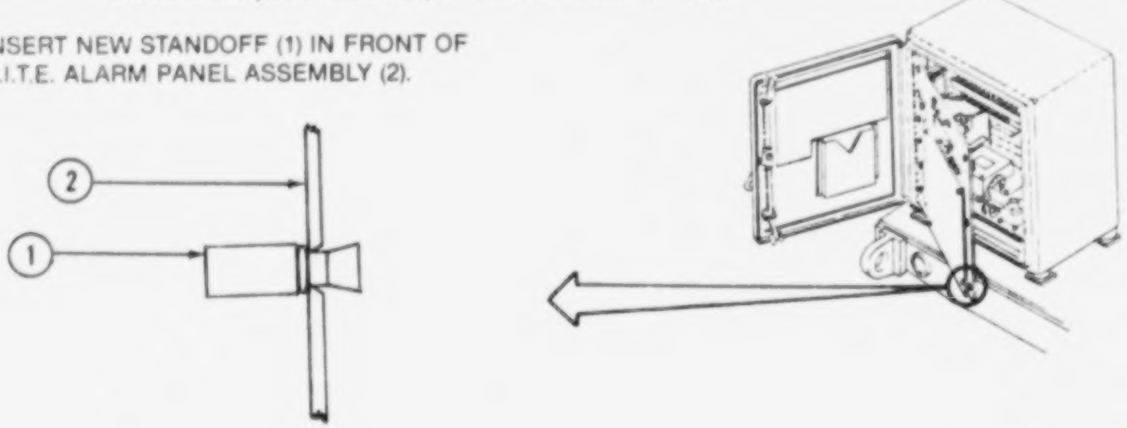
AC. PANEL FASTENER INSTALLATION

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

NOTE

Panel fastener consists of screw, spring, retainer, and standoff. Top, middle, and bottom panel fasteners are installed the same way. Steps 2 thru 7 show bottom panel fastener. If you replace two or more panel fasteners, you must increase the panel fastener parts listed in Initial Setup.

2. INSERT NEW STANDOFF (1) IN FRONT OF B.I.T.E. ALARM PANEL ASSEMBLY (2).



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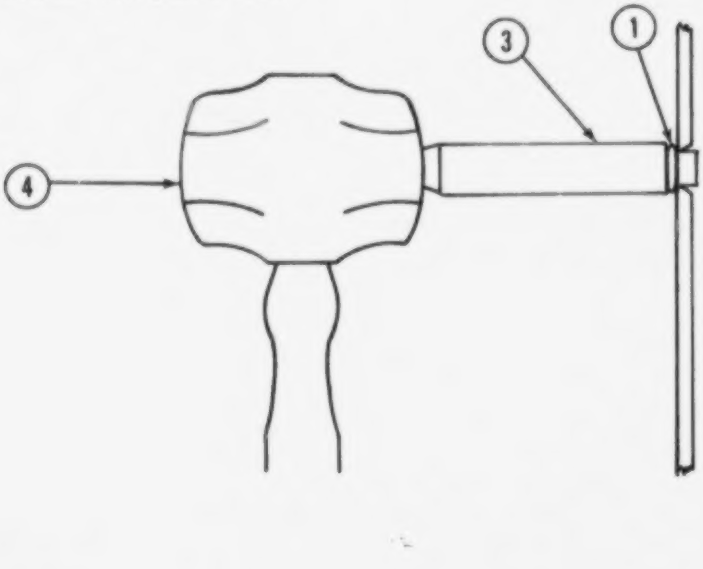
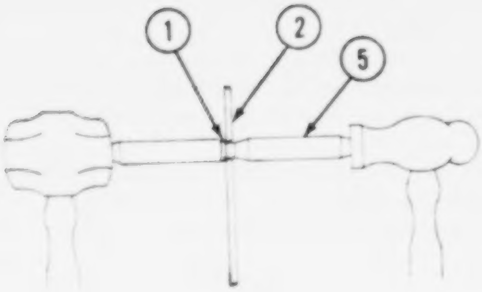
3. POSITION BACK-UP TOOL ON STANDOFF.
   - Place back-up tool (3) on standoff (1).
   - Place hand sledge hammer (4) against back-up tool (3).



NOTE

Back-up tool and hammer must be held in place while standoff is seated on B.I.T.E. ALARM panel assembly.

4. SEAT STANDOFF ON B.I.T.E. ALARM PANEL ASSEMBLY.
   - Place flaring tool (5) in open end of standoff (1) on back of panel assembly (2).
   - Strike flaring tool (5) until standoff (1) seats in panel assembly (2). Use ball peen hammer. Use helper.



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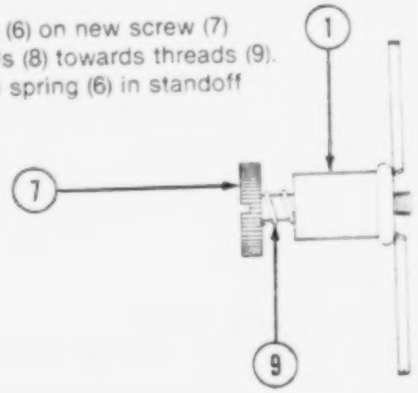
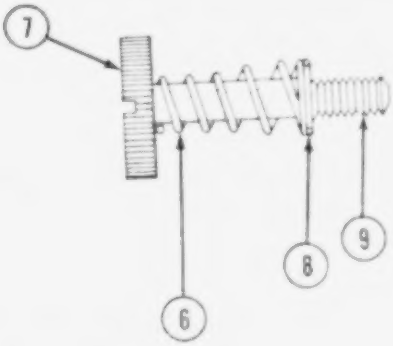
5. POSITION NEW SCREW WITH NEW SPRING IN STANDOFF.
   - Position new spring (6) on new screw (7) with two closed coils (8) towards threads (9).
   - Insert screw (7) with spring (6) in standoff (1).





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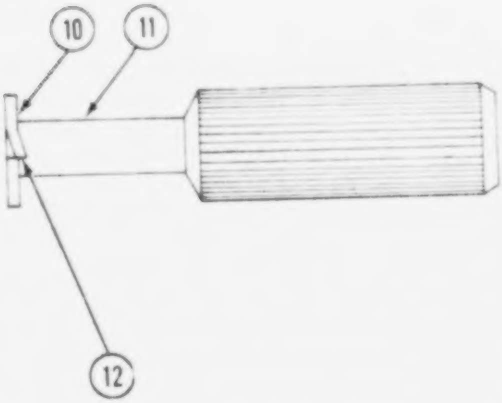
6. POSITION NEW RETAINER ON RETAINER TOOL.
   - Place new retainer (10) against face of retainer tool (11).
   - Turn retainer (10) to right until retainer seats in slot (12).



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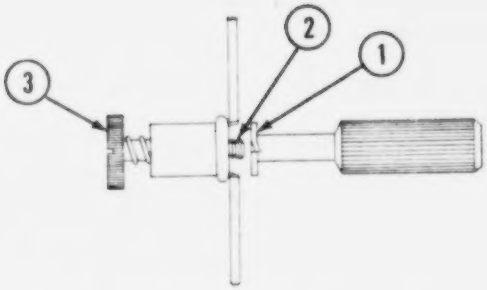
AC. PANEL FASTENER INSTALLATION — Continued

7. INSTALL RETAINER ON SCREW.
   - Place retainer (1) on screw threads (2). Use retainer tool.
   - Hold screw (3).
   - Turn retainer (1) to right until retainer seats on screw threads (2). Use retainer tool.



8. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)

NOTE

FOLLOW-ON MAINTENANCE:
Close BITE Panel Door. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)

AD. B.I.T.E. ALARM PANEL INTERCONNECT WIRING REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-196.)

NOTE

Components mounted on B.I.T.E. ALARM panel assembly are interconnected by unmarked leads and jumper leads. The B.I.T.E. ALARM Panel Interconnect Wiring Destination List, Page 11-257, provides routing and connection data on each of these leads. The "Connection" columns tell how each end of a lead is connected. The "CCA17 Removal" column tells when removal of Circuit Card Assembly CCA17 is required for access to a lead.

• • • •

If removal of Circuit Card Assembly CCA17 is not required for access to interconnect leads, go to step 3.

2. REMOVE CIRCUIT CARD ASSEMBLY CCA17 FROM DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-245.)

B.I.T.E. ALARM PANEL INTERCONNECT WIRING DESTINATION LIST

From Connection	Connection		Wire Gage 24	Bus No. 20	To Connection	Connection		CCA17 Removal
	Crimp Lug Terminal	Solder				Crimp Lug Terminal	Solder	
SW15-2	X		X		PBSW5	X		
PBSW5	X		X		PBSW6	X		
PBSW6	X		X		PBSW7	X		
SW15-2	X		X		SW17-2	X		
SW20-1	X		X		SW21-1	X		X
SW21-1	X				SW22-1	X		
SW22-1	X				SW23-1	X		
SW23-1	X				SW24-1	X		
SW24-1	X				SW25-1	X		
SW25-1	X				SW26-1	X		
SW26-1	X				SW29-1	X		
SW29-1	X				SW30-1	X		
SW30-1	X				SW31-1	X		
SW31-1	X				SW32-1	X		
SW32-1	X				SW33-3	X		
SW33-3	X				SW34-3	X		
SW34-3	X				SW34-4	X		
SW34-4	X				SW33-4	X		
SW20-1	X				9LT-A		X	X
SW20-3	X				SW21-3	X		X
SW21-3	X				SW22-3	X		
SW22-3	X				SW23-3	X		
SW23-3	X				SW25-3/ R5-1	X		X
SW25-3	X				SW26-3	X		
SW26-3	X		X		108LT-A/ 28LT-A		X	
SW29-3	X		X		113LT-A		X	
SW30-3	X		X		61LT-A		X	

GO TO NEXT PAGE

AD. B.I.T.E. ALARM PANEL INTERCONNECT WIRING REMOVAL — Continued

B.I.T.E. ALARM PANEL INTERCONNECT WIRING DESTINATION LIST — Continued

From Connection	Connection		Wire Gage 24	Bus No. 20	To Connection	Connection		CCA17 Removal
	Crimp Lug Terminal	Solder				Crimp Lug Terminal	Solder	
111LT-A		X		X	61LT-A		X	
61LT-A		X	X		60LT-A		X	
60LT-A		X	X		32LT-A			
SW31-3	X		X		SW32-3	X		
SW33-1	X		X		8LT-A		X	
9LT-A		X	X		10LT-A		X	X
10LT-A		X	X		R5-2		X	X
8LT-B		X	X		R6-CW		X	
R6-CW		X	X		PBSW-10	X		
PBSW-10	X	X			PBSW-11	X		
PBSW-8	X	X			PBSW-9	X		
PBSW-9	X		X		PBSW-12	X		
PBSW-12	X		X		PBSW-13	X		
PBSW-13	X		X		PBSW-14	X		
PBSW-14	X		X		PBSW-15	X		
111LT-A		X	X		112LT-A		X	
112LT-A		X		X	113LT-A		X	
25LT-A		X		X	33LT-A		X	
33LT-A		X	X		34LT-A		X	
34LT-A		X		X	36LT-A		X	
26LT-A		X		X	23LT-A		X	X
23LTA		X		X	25LTA		X	X
25LTA		X		X	27LTA		X	
27LTA		X		X	104LT-A		X	
104LT-A		X		X	105LT-A		X	
105LT-A		X		X	106LT-A		X	
106LT-A		X		X	107LT-A		X	
107LT-A		X		X	110LT-A		X	
110LT-A		X		X	109LT-A		X	
109LT-A		X		X	108LT-A		X	

B.I.T.E. ALARM PANEL INTERCONNECT WIRING DESTINATION LIST — Continued

From Connection	Connection		Wire Gage 24	Bus No. 20	To Connection	Connection		CCA17 Removal
	Crimp Lug Terminal	Solder				Crimp Lug Terminal	Solder	
28LT-A		X		X	29LT-A		X	
29LT-A		X		X	30LT-A		X	
30LT-A		X		X	31LT-A		X	
31LT-A		X		X	32LT-A		X	
R5-1		X	X		SW25-3	X		X
36LT-A		X		X	35LT-A		X	
35LT-A		X		X	50LT-A		X	
50LT-A		X		X	49LT-A		X	
49LTA		X		X	48LT-A		X	
48LTA		X		X	46LT-A		X	
46LT-A		X	X		55LT-A		X	
55LT-A		X		X	56LT-A		X	
56LT-A		X		X	57LT-A		X	
57LT-A		X		X	58LT-A		X	
58LT-A		X		X	59LT-A		X	
59LT-A		X		X	100LT-A		X	
100LT-A		X		X	101LT-A		X	
101LT-A		X		X	102LT-A		X	
102LT-A		X		X	103LT-A		X	
36LT-A		X		X	39LTA		X	
39LT-A		X		X	37LTA		X	
37LTA		X		X	38LTA		X	
38LTA		X		X	40LT-A		X	
40LT-A		X		X	41LT-A		X	
41LT-A		X		X	43LT-A		X	
43LT-A		X		X	44LT-A		X	
44LT-A		X		X	45LT-A		X	
39LT-A		X		X	54LT-A		X	
54LT-A		X		X	53LT-A		X	
53LT-A			X		52LT-A		X	

GO TO NEXT PAGE

AD. B.I.T.E. ALARM PANEL INTERCONNECT WIRING REMOVAL — Continued

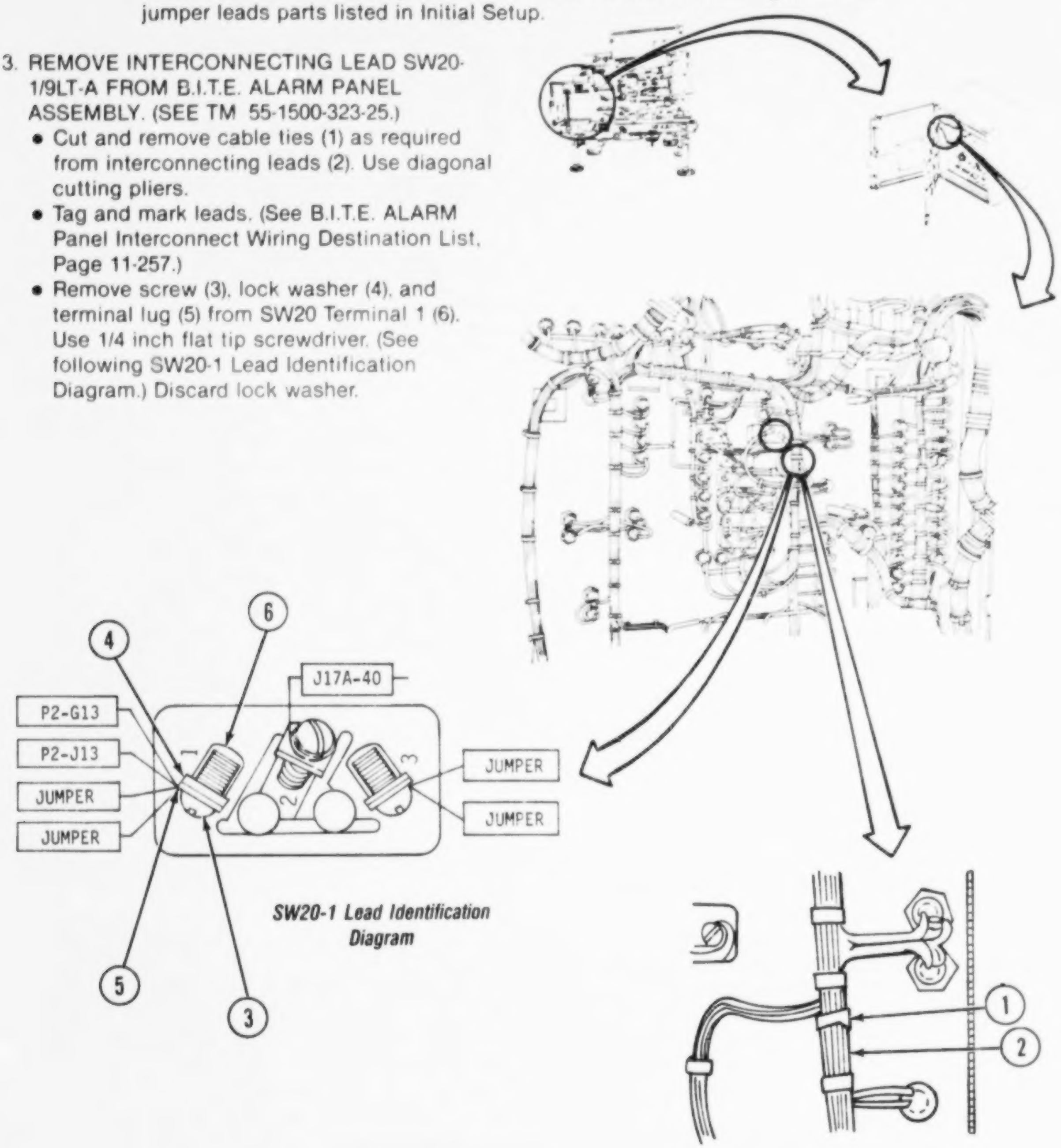
B.I.T.E. ALARM PANEL INTERCONNECT WIRING DESTINATION LIST — Continued

From Connection	Connection		Wire Gage 24	Bus No. 20	To Connection	Connection		CCA17 Removal
	Crimp Lug Terminal	Solder				Crimp Lug Terminal	Solder	
52LT-A		X		X	51LT-A		X	
SW22-2	X		X		14SW-B4-2		X	
SW23-2	X		X		14SW-B5-2		X	
SW24-2	X		X		14SW-D1-2		X	
SW25-2	X		X		14SW-A1-2		X	
SW26-2	X		X		14SW-A2-2		X	
SW28 COM	X		X		14SW-D2-2		X	
SW31-2	X		X		14SW-A3-2		X	
SW32-2	X		X		14SW-B1-2		X	
SW33-2	X		X		14SW-B2-2		X	
SW33-5	X		X		14SW-B3-2		X	
SW34-2	X		X		14SW-C1-2		X	
SW34-5	X		X		14SW-C2-2		X	
PBSW8	X		X		14SW-C3		X	
8LT A		X	X		14SW-C3-2		X	
8LT-B		X	X		14SW-C4		X	

NOTE

Interconnecting leads and jumper leads are removed as indicated by the B.I.T.E. ALARM Panel Interconnect Wiring Destination List, Page 11-257. Step 3 shows Lead SW20-1/9LT-A. You may need to replace more leads than Lead SW20-1/9LT-A. If so, you must increase the interconnecting leads and jumper leads parts listed in Initial Setup.

3. REMOVE INTERCONNECTING LEAD SW20-1/9LT-A FROM B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 55-1500-323-25.)
   - Cut and remove cable ties (1) as required from interconnecting leads (2). Use diagonal cutting pliers.
   - Tag and mark leads. (See B.I.T.E. ALARM Panel Interconnect Wiring Destination List, Page 11-257.)
   - Remove screw (3), lock washer (4), and terminal lug (5) from SW20 Terminal 1 (6). Use 1/4 inch flat tip screwdriver. (See following SW20-1 Lead Identification Diagram.) Discard lock washer.



SW20-1 Lead Identification Diagram

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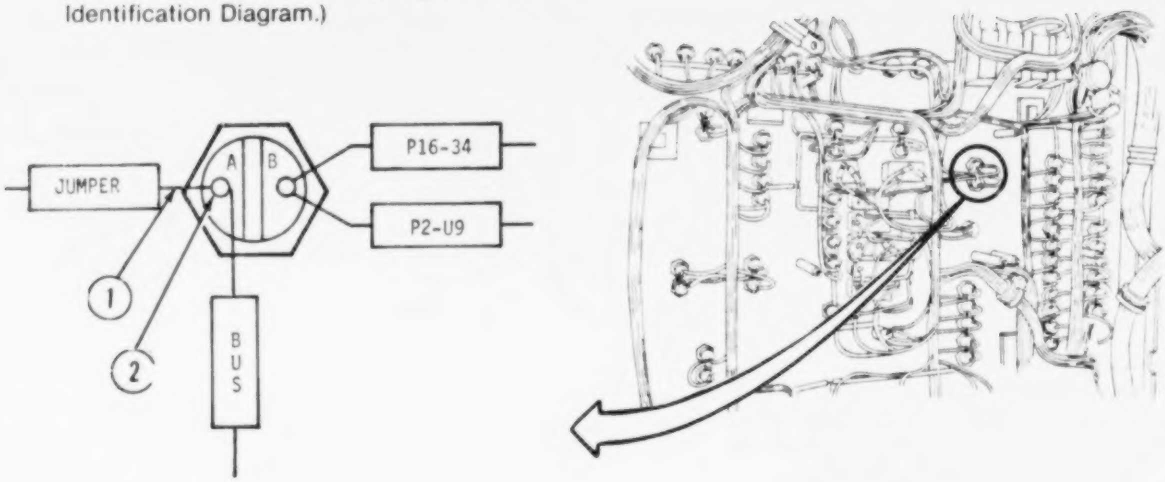
AD. B.I.T.E. ALARM PANEL INTERCONNECT WIRING REMOVAL — Continued

- Unsolder lead (1) at 9LT Terminal A (2). (See TM 55-1500-323-25 and following 9LT-A Lead Identification Diagram.)



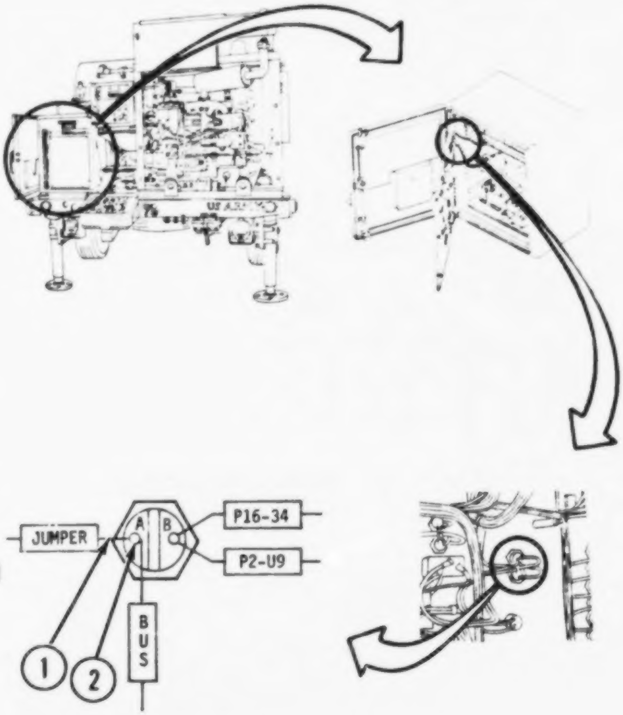
9LT-A Lead Identification Diagram

AE. B.I.T.E. ALARM PANEL INTERCONNECT WIRING INSTALLATION

NOTE

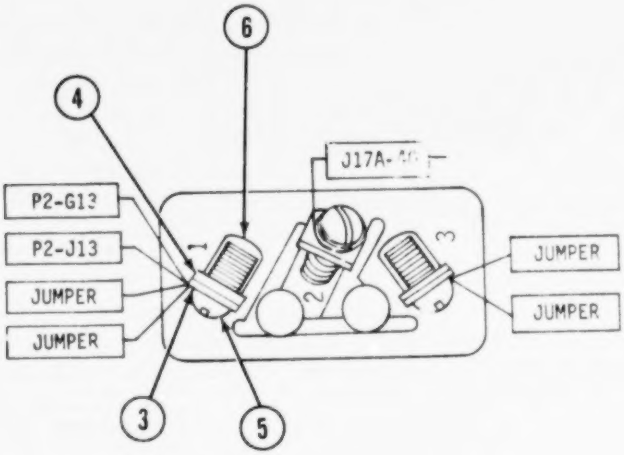
Interconnecting leads and jumper leads are installed as indicated by the B.I.T.E. ALARM Panel Interconnect Wiring Destination List, Page 11-257.) Step 1 shows lead SW20-1/9LT-A. You may need to replace more leads than Lead SW20-1/9LT-A. If so, you must increase the interconnecting lead and jumper leads parts listed in Initial Setup.

1. INSTALL INTERCONNECTING LEAD SW20-1/9LT-A ON B.I.T.E. ALARM PANEL ASSEMBLY. (SEE TM 55-1500-323-25.)
   - Solder lead (1) at 9LT Terminal A (2). (See TM 55-1500-323-25 and following 9LT-A Lead Identification Diagram.)

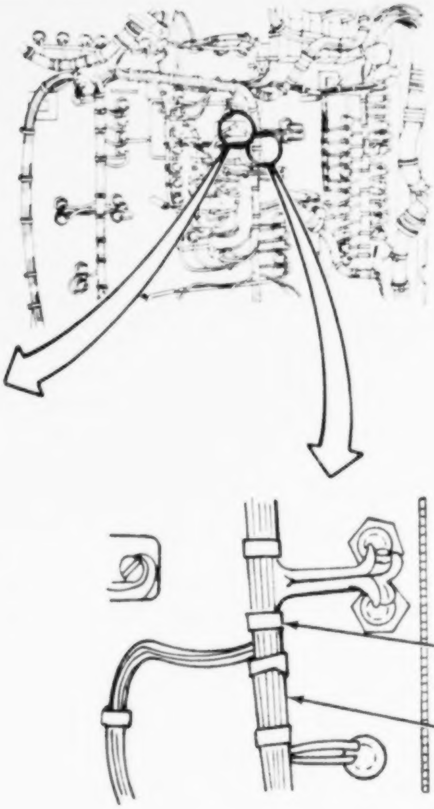


9LT-A Lead Identification Diagram

- Install terminal lug (3), new lock washer (4), and screw (5) on SW20 Terminal 1 (6). Use 1/4 inch flat tip screwdriver. (See following SW20-1 Lead Identification Diagram.)
- Install new cable ties (7) as required on interconnecting leads (8). Use round nose pliers.
- Remove tags from leads.



SW20-1 Lead Identification Diagram



NOTE

If Circuit Card Assembly CCA17 was not removed, go to step 3.

2. INSTALL CIRCUIT CARD ASSEMBLY CCA17 ON DISPENSER. (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-246.)

3. CLOSE B.I.T.E./ALARM CONTROL PANEL (BACP). (SEE B.I.T.E. ALARM PANEL ASSEMBLY, PAGE 11-201.)

NOTE

FOLLOW-ON MAINTENANCE:

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)
Perform B.I.T.E./ALARM CONTROL PANEL Checkout Procedure. (See TM 9-1095-205-20.)
Close BITE Panel Door. (See TM 9-1095-205-10.)
Disconnect And Stow Operator Control Box And Cable. (See TM 9-1095-205-10.)

END OF TASK

11-13 CIRCUIT CARD ASSEMBLIES

DESCRIPTION

This task covers:
A. REMOVAL (p 11-265)
B. INSTALLATION (p 11-267)

INITIAL SETUP

Tools and Special Tools:
General mechanic's tool kit
  5180-00-177-7033:
    3/8 inch flat tip screwdriver
    5/16 inch flat tip screwdriver
Antistatic bag
Shorting strip (19200) 9291365-2

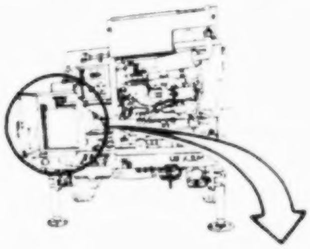
Personnel Required:
Electrical repairer

References:
TM 9-1095-205-10
TM 9-1095-205-20

OVERVIEW

There are 16 circuit card assemblies in the card rack assembly. Card rack assembly positions are placarded 1 through 16. Each circuit card assembly is removed and installed the same way. The procedure shows circuit card assembly in rack position 16.

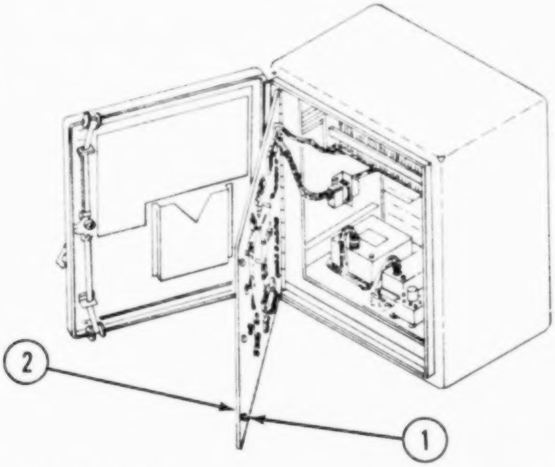
A. REMOVAL



NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open BITE Panel Door. (See TM 9-1095-205-10.)

1. OPEN B.I.T.E./ALARM CONTROL PANEL.
   - Loosen three panel fasteners (1), and open B.I.T.E./ALARM CONTROL PANEL (2). Use 3/8 inch flat tip screwdriver.



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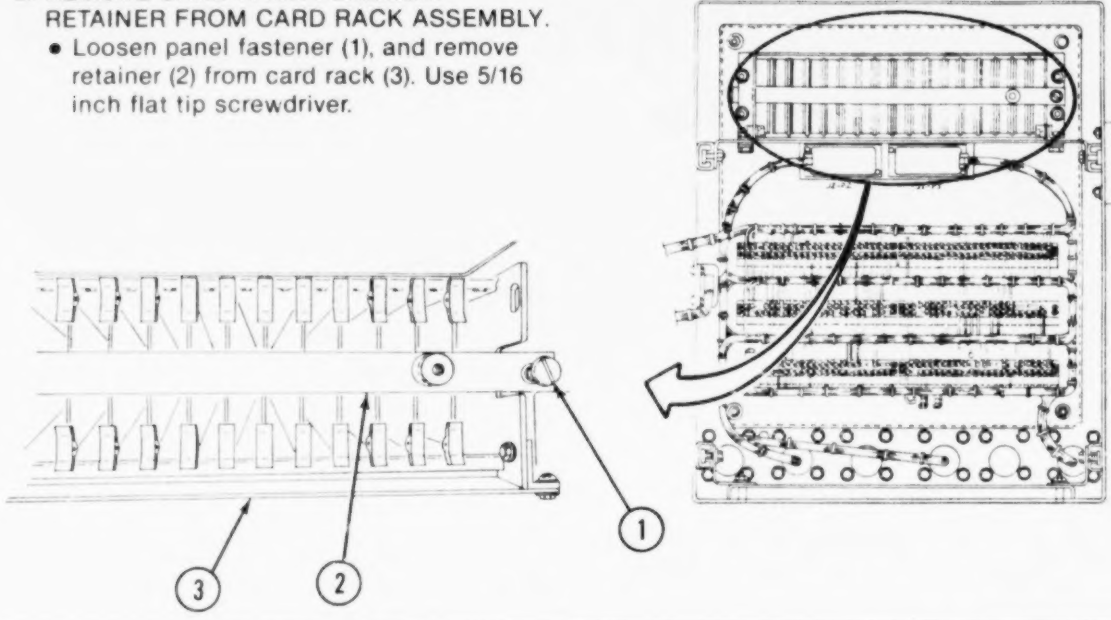
A. REMOVAL — Continued

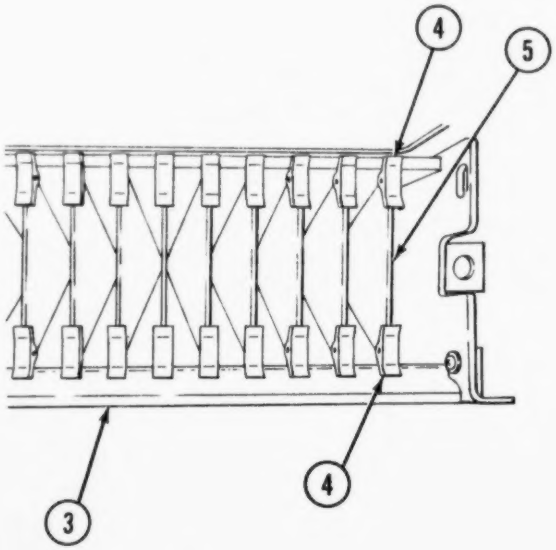
2. REMOVE CARD RACK ASSEMBLY RETAINER FROM CARD RACK ASSEMBLY.
   - Loosen panel fastener (1), and remove retainer (2) from card rack (3). Use 5/16 inch flat tip screwdriver.



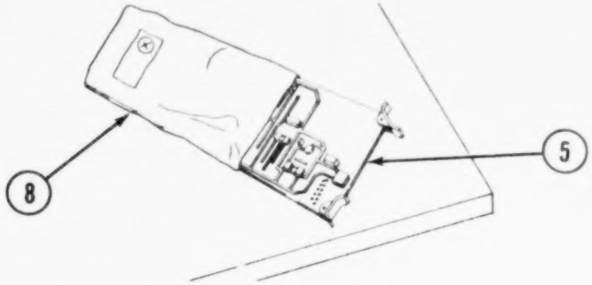
CAUTION

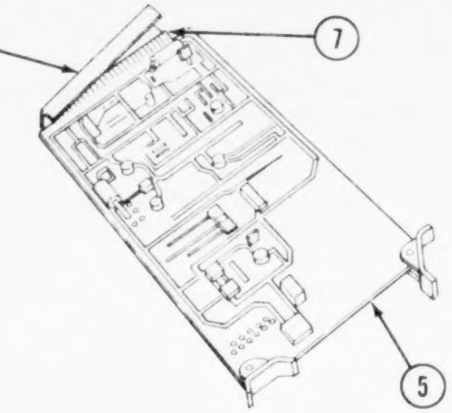
Circuit card assemblies can be damaged by static electricity and by installation in wrong card rack assembly position. Do not touch pathways or connector ends of circuit card assembly during removal. Immediately after removal, each circuit card assembly must be identified and be protected by shorting strip and antistatic bag.

3. REMOVE CIRCUIT CARD ASSEMBLY FROM CARD RACK ASSEMBLY.
   - Push top and bottom board ejection clips (4) to release circuit card (5) from card rack (3).
   - Pull circuit card (5) from card rack (3).



- Install shorting strip (6) on circuit card connector end (7).
- Tag and mark circuit card.
- Place circuit card (5) in antistatic bag (8).

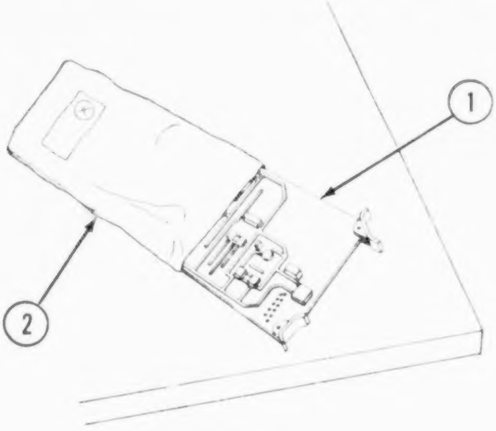




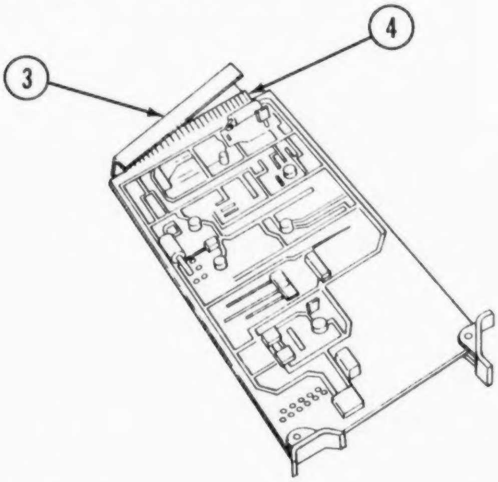
B. INSTALLATION

CAUTION

Circuit card assemblies can be damaged if installed with excessive force or upside down. Do not force circuit card assemblies into card rack assembly. Make sure component side is facing left.



1. INSTALL CIRCUIT CARD ASSEMBLY IN CARD RACK ASSEMBLY.
   - Remove circuit card (1) from antistatic bag (2).
   - Remove shorting strip (3) from circuit card connector end (4).
   - Remove tag from circuit card.



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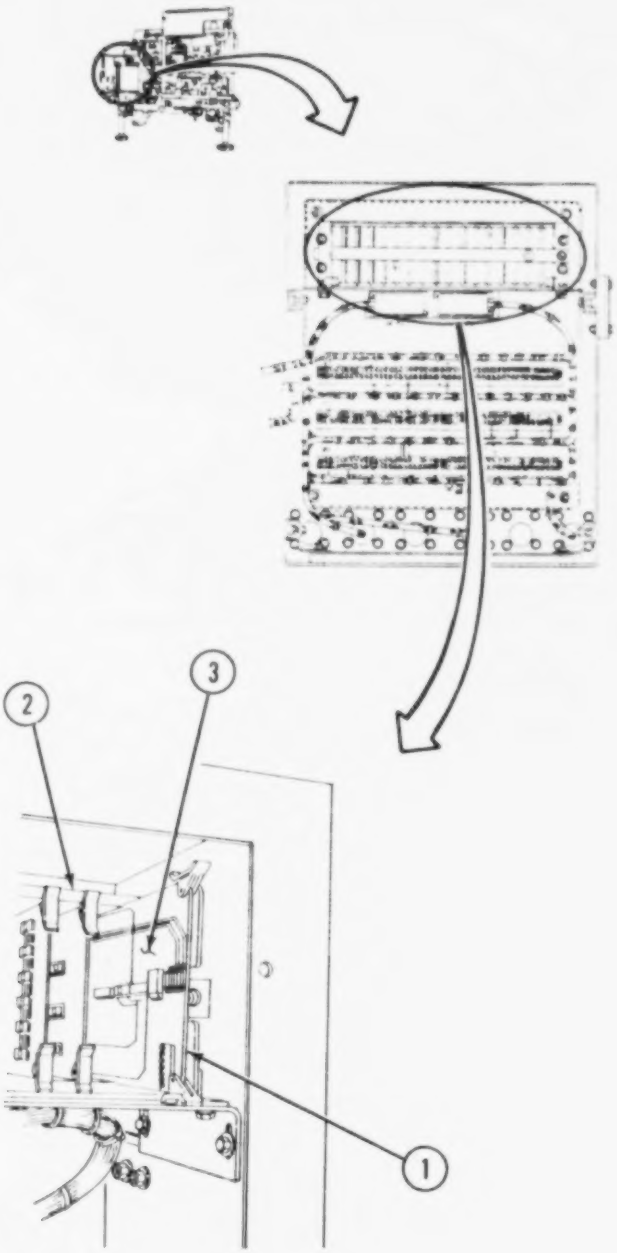
B. INSTALLATION — Continued

CAUTION

Circuit card assemblies can be damaged if installed with excessive force or upside down. Do not force circuit card assemblies into card rack assembly. Make sure component side is facing left.

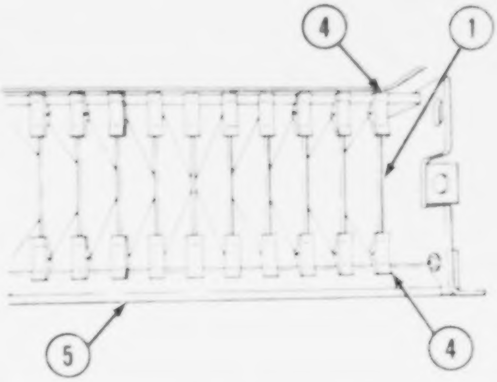
- Position circuit card (1) in two card rack guides (2) with component side (3) facing left. (See following Circuit Card Assembly Position List.)
- Slide circuit card (1) into two card rack guides (2).



CIRCUIT CARD ASSEMBLY POSITION LIST

Card Rack Assembly Placarded Number	Circuit Card Placarded Placarded Part Number
1	9290227
2	9291352
3	9291224
4	9290623
5	9290647
6	9290647
7	9290651
8	9290651
9	9335623
10	9325623
11	9290656
12	9290656
13	9290661
14	9291379
15	9290793
16	9290669

- Push top and bottom board ejection clips (4) to secure circuit card (1) in card rack (5).



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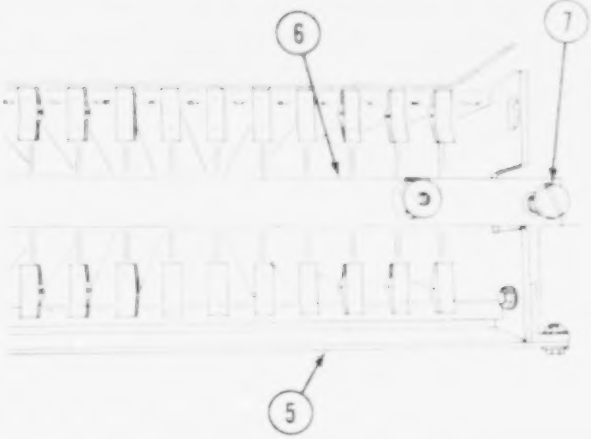
2. INSTALL CARD RACK ASSEMBLY RETAINER ON CARD RACK ASSEMBLY.
   - Place card rack retainer (6) on card rack (5) and tighten panel fastener (7). Use 5/16 inch flat tip screwdriver.



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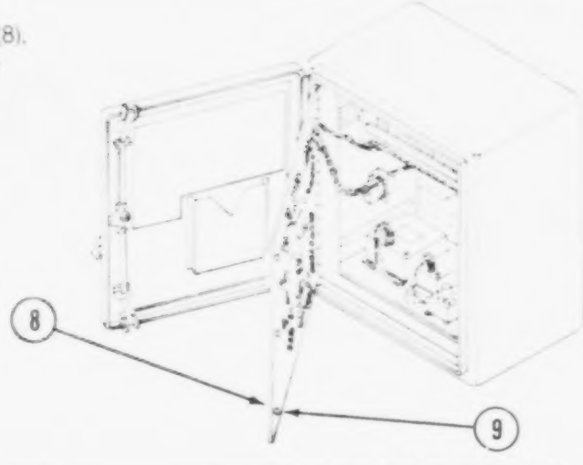
3. CLOSE B.I.T.E./ALARM CONTROL PANEL.
   - Close B.I.T.E./ALARM CONTROL PANEL (8), and tighten three panel fasteners (9). Use 3/8 inch flat tip screwdriver.

NOTE

FOLLOW-ON MAINTENANCE:
Close BITE Panel Door. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)



END OF TASK

CHAPTER 12

MAIN CONTROL PANEL (DIRECT SUPPORT)

Section I. REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

12-1 COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

12-2 SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

No special tools are authorized for the M128 Ground Vehicle Mine Dispenser.

12-3 REPAIR PARTS

Repair parts are listed and illustrated in the repair parts and special tools list TM 9-1095-205-34P, covering direct support and general support maintenance for this equipment.

Section II. MAINTENANCE PROCEDURES

12-4 CONNECTOR ASSEMBLIES J6, J35, AND CYCLING SWITCH

DESCRIPTION

This task covers:

A. CONNECTOR ASSEMBLY J6 REMOVAL (p 12-3)
B. CONNECTOR ASSEMBLY J6 INSTALLATION (p 12-6)
C. CONNECTOR ASSEMBLY J35 REMOVAL (p 12-9)
D. CONNECTOR ASSEMBLY J35 INSTALLATION (p 12-11)
E. CYCLING SWITCH REMOVAL (p 12-13)
F. CYCLING SWITCH INSTALLATION (p 12-14)

INITIAL SETUP

Tools and Special Tools:

General mechanic's tool kit
 5180-00-177-7033:
  7/16 inch socket
  2 inch extension
  Ratchet handle
  Diagonal cutting pliers
  Slip joint pliers
  1/4 inch flat tip screwdriver
  No. 2 cross tip screwdriver
  Screw starter
12 inch adjustable wrench (2) 5120-00-264-3796
Goggles 4240-00-269-7912

Materials/Parts:

Lock washer 5310-00-193-7577
Safety wire, Item 24, Appendix B

Personnel Required:

Mechanic
Helper

References:

TM 9-1095-205-10
TM 9-1095-205-20

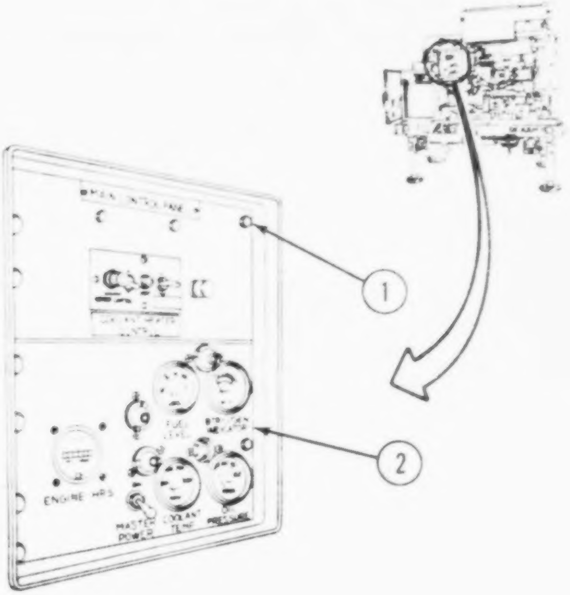
A. CONNECTOR ASSEMBLY J6 REMOVAL

NOTE

PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open Main Control Panel Door. (See TM 9-1095-205-10.)

1. OPEN MAIN CONTROL PANEL.
   - Remove two screws (1) from panel (2). Use 7/16 inch socket with two inch extension and ratchet handle.
   - Open panel (2).



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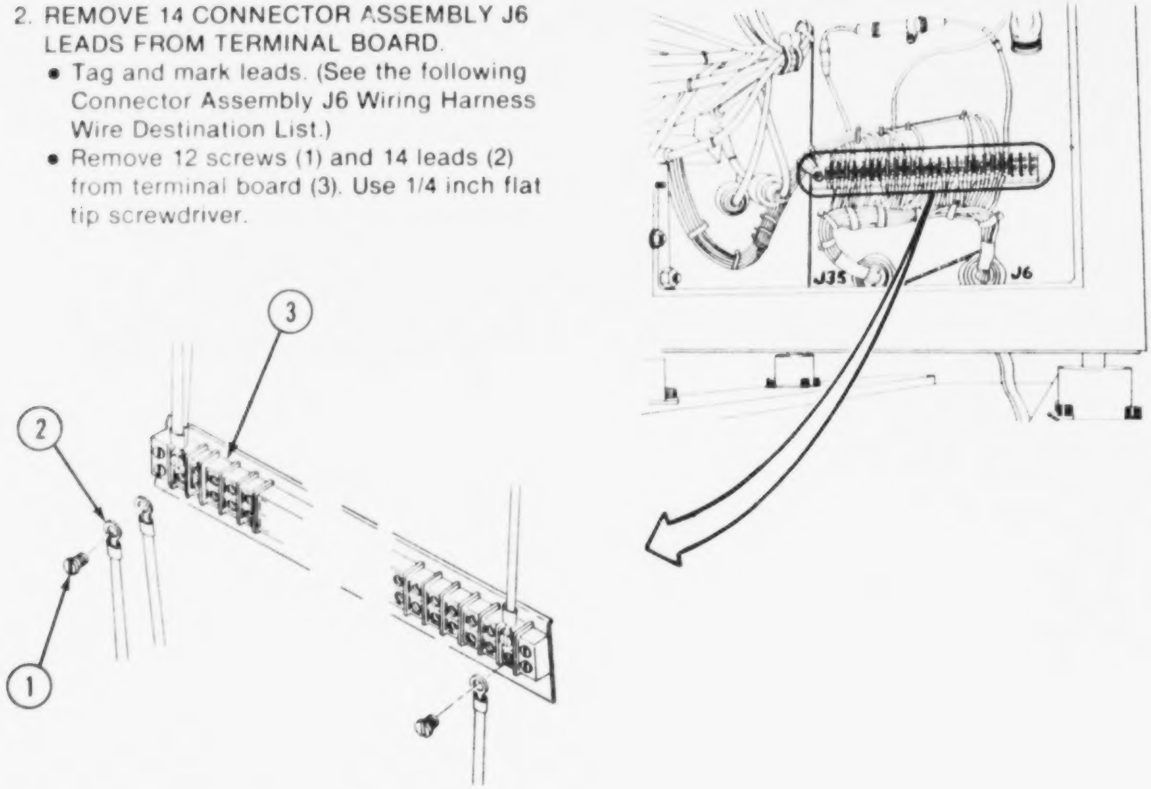
A. CONNECTOR ASSEMBLY J6 REMOVAL — Continued

2. REMOVE 14 CONNECTOR ASSEMBLY J6 LEADS FROM TERMINAL BOARD.
   - Tag and mark leads. (See the following Connector Assembly J6 Wiring Harness Wire Destination List.)
   - Remove 12 screws (1) and 14 leads (2) from terminal board (3). Use 1/4 inch flat tip screwdriver.



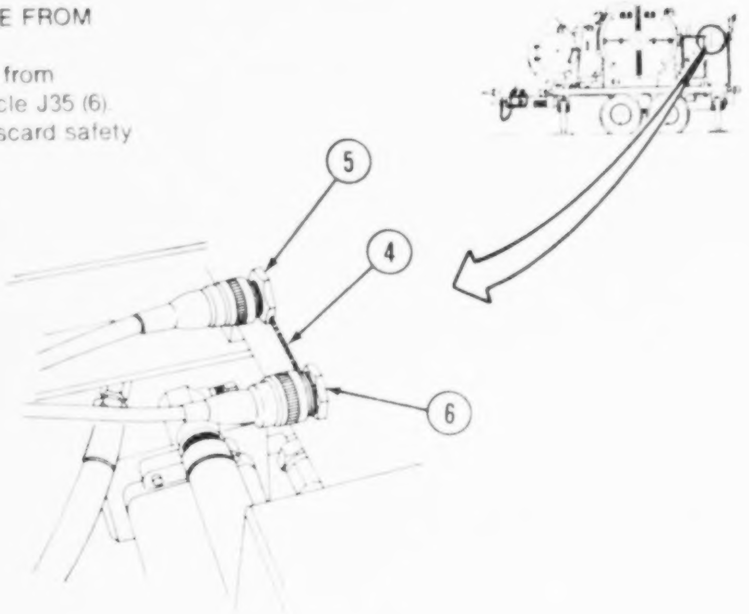
CONNECTOR ASSEMBLY J6 WIRING HARNESS WIRE DESTINATION LIST

Wire No.	From Connection P6/J6	To Terminal Board 2TB Terminal No.
2	A	2
2	B	2
5	C	5
6	D	6
11	E	11
12	F	12
19	G	19
20	H	20
21	J	21
22	K	22
23	L	23
51	M	51
51	N	51
81	P	81

WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

3. CUT AND REMOVE SAFETY WIRE FROM RECEPTACLES J6 AND J35.
   - Cut and remove safety wire (4) from Receptacle J6 (5) and Receptacle J35 (6). Use diagonal cutting pliers. Discard safety wire.



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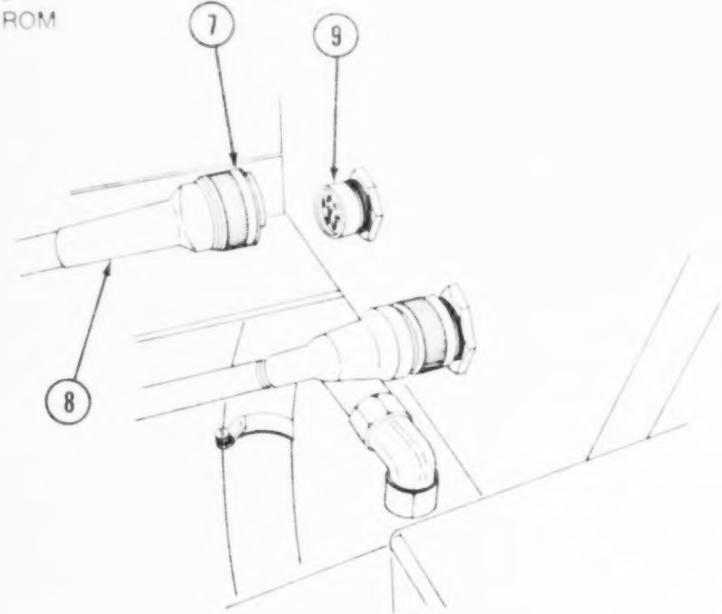
4. TURN CONNECTOR SLEEVE (7), AND DISCONNECT CONNECTOR P6 (8) FROM RECEPTACLE J6 (9).



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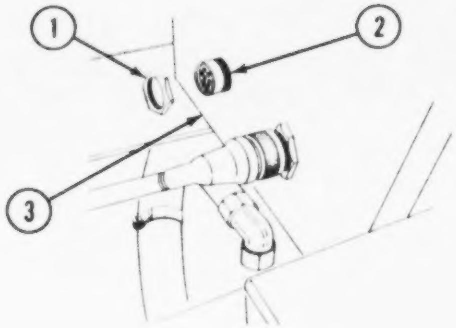
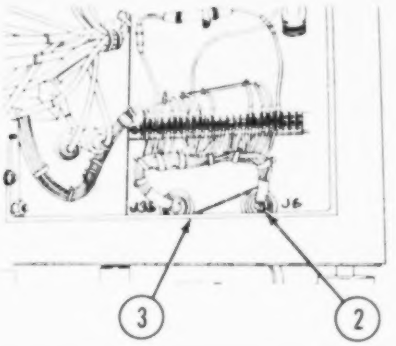
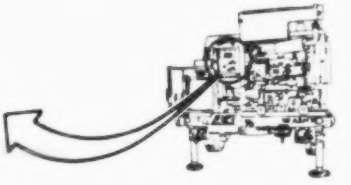
A. CONNECTOR ASSEMBLY J6 REMOVAL — Continued

5. REMOVE RECEPTACLE J6 FROM MAIN CONTROL CABINET ENCLOSURE ASSEMBLY.
   - Remove jam nut (1) from Receptacle J6 (2). Use two 12 inch adjustable wrenches. Use helper.
   - Remove Receptacle J6 (2) from enclosure assembly (3).

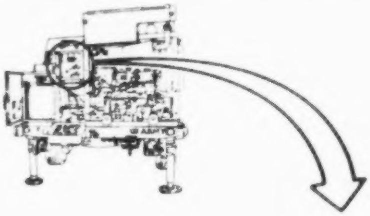


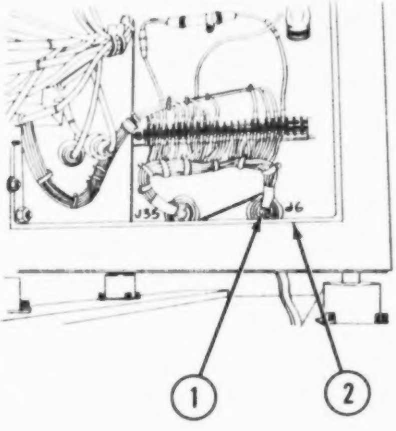


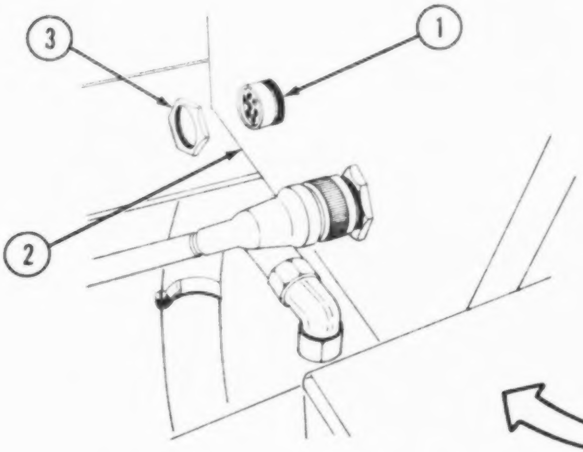


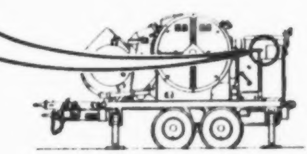
B. CONNECTOR ASSEMBLY J6 INSTALLATION

1. INSTALL RECEPTACLE J6 ON MAIN CONTROL CABINET ENCLOSURE ASSEMBLY.
   - Place and hold Receptacle J6 (1) inside enclosure assembly (2).
   - Install jam nut (3) on Receptacle J6 (1). Use two 12 inch adjustable wrenches. Use helper.

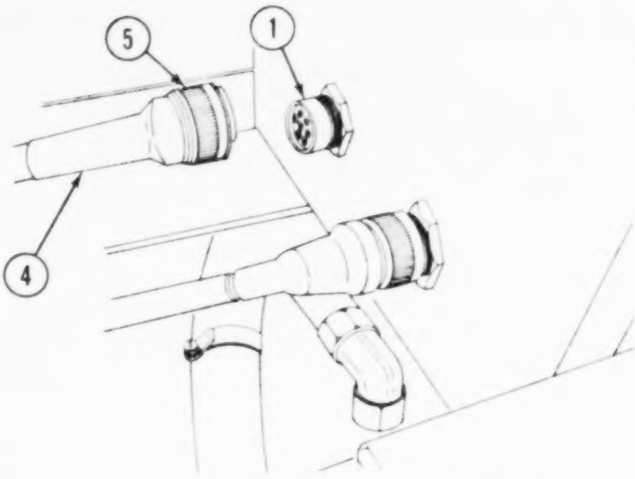








2. CONNECT CONNECTOR P6 (4) TO RECEPTACLE J6 (1) AND TURN CONNECTOR SLEEVE (5).



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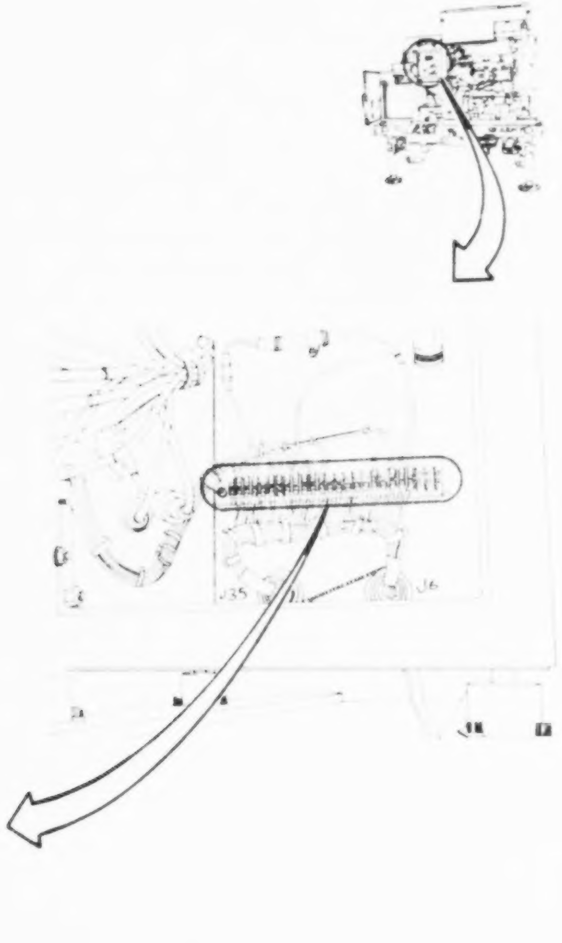
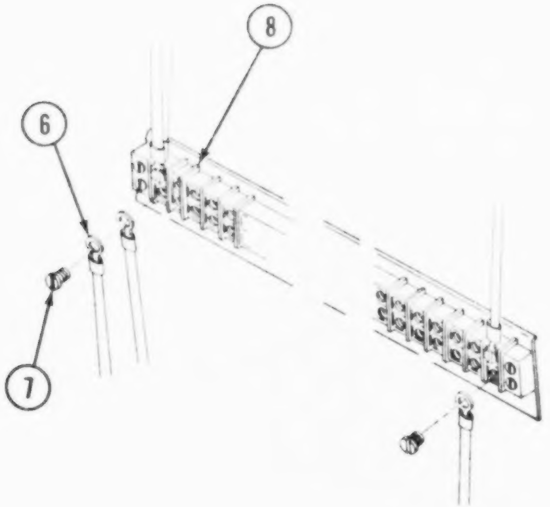
3. INSTALL 14 CONNECTOR ASSEMBLY J6 LEADS ON TERMINAL BOARD.
   - Install 14 J6 leads (6) and 12 screws (7) on terminal board (8). Use 1/4 inch flat tip screwdriver and screw starter. (See Connector Assembly J6 Wiring Harness Wire Destination List, Page 12-4.)
   - Remove tags from leads.





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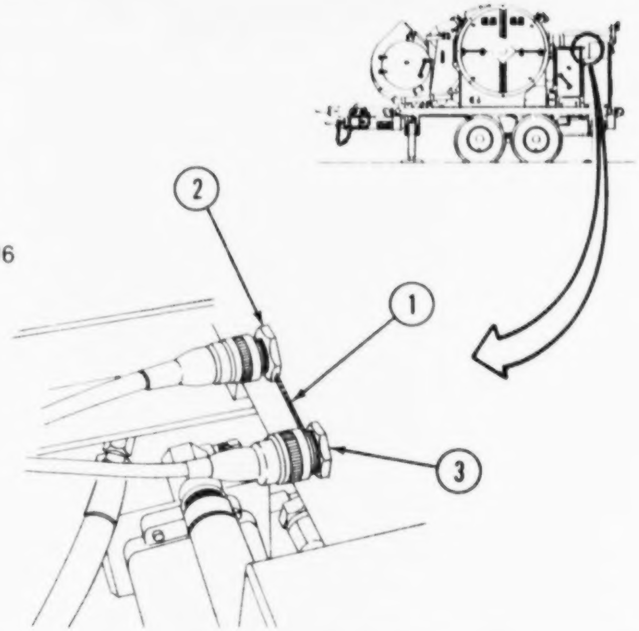
B. CONNECTOR ASSEMBLY J6 INSTALLATION — Continued

WARNING

Flying bits of metal can blind you. Always wear goggles when you cut metal or use power tools.

4. INSTALL NEW SAFETY WIRE ON RECEPTACLES J6 AND J35.
   - Install new safety wire (1) on Receptacle J6 (2) and Receptacle J35 (3). Use slip joint pliers.



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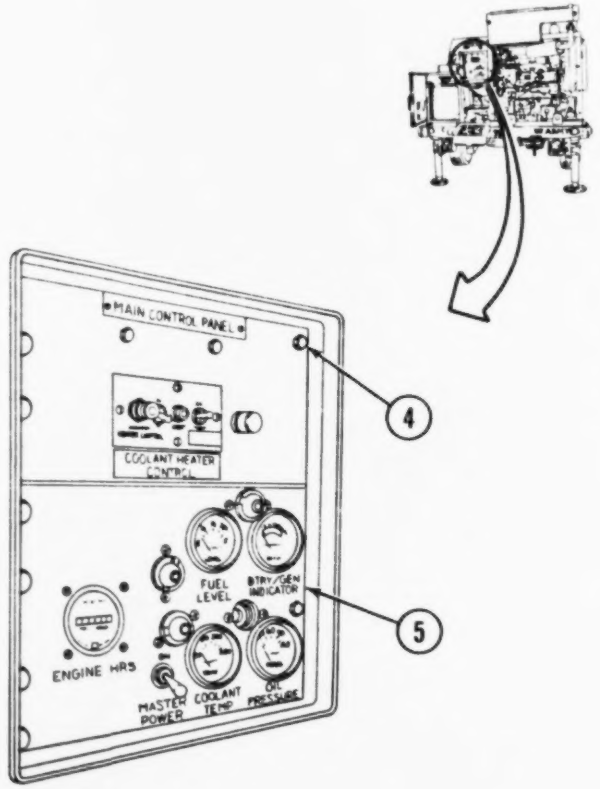
5. CLOSE MAIN CONTROL PANEL.
   - Install two screws (4) on panel (5). Use 7/16 inch socket with 2 inch extension and ratchet handle.

NOTE

FOLLOW-ON MAINTENANCE:

Close Main Control Panel Door. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)



C. CONNECTOR ASSEMBLY J35 REMOVAL

NOTE

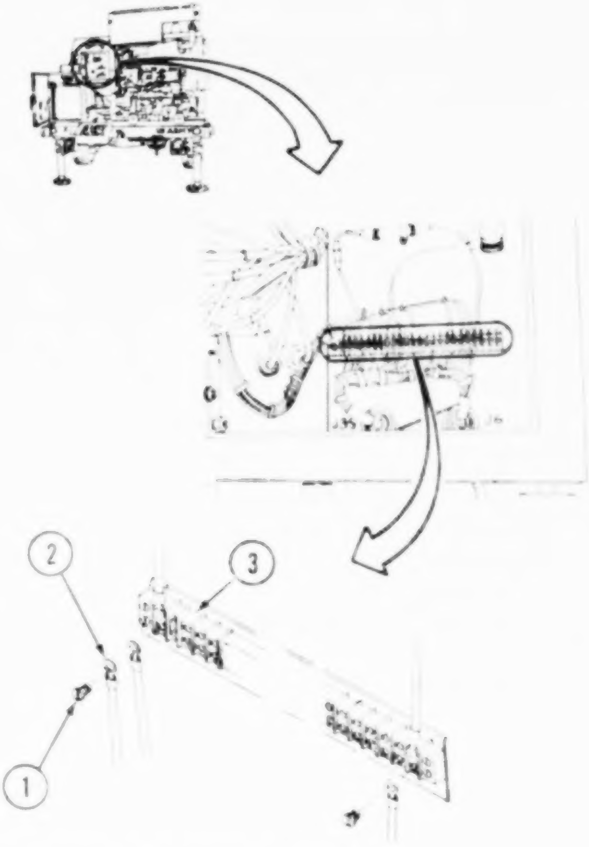
PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open Main Control Panel Door. (See TM 9-1095-205-10.)

1. OPEN MAIN CONTROL PANEL. (SEE CONNECTOR ASSEMBLIES J6, J35, AND CYCLING SWITCH, PAGE 12-3.)

2. REMOVE 15 CONNECTOR ASSEMBLY J35 LEADS FROM TERMINAL BOARD.
   - Tag and mark leads. (See the following Connector Assembly J35 Wiring Harness Wire Destination List.)
   - Remove 15 screws (1) and J35 leads (2) from terminal board (3). Use 1/4 inch flat tip screwdriver.

3. CUT AND REMOVE SAFETY WIRE FROM RECEPTACLES J6 AND J35. (SEE CONNECTOR ASSEMBLIES J6, J35, AND CYCLING SWITCH, PAGE 12-5.)



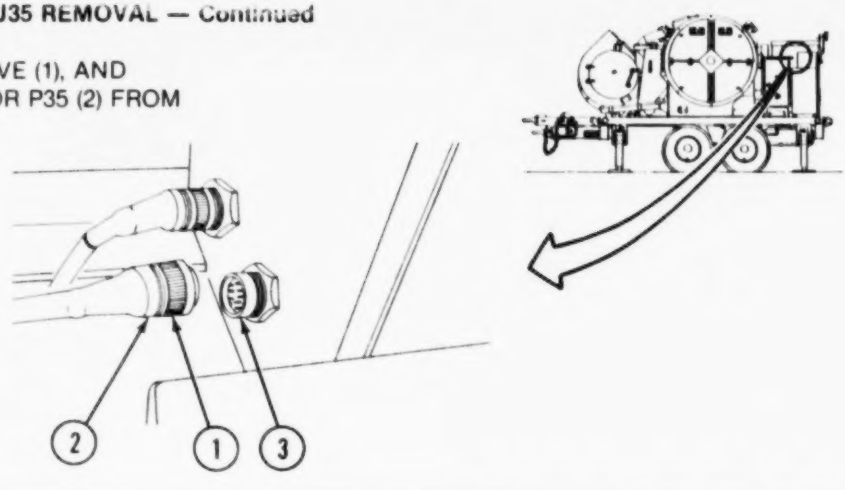
CONNECTOR ASSEMBLY J35 WIRING HARNESS WIRE DESTINATION LIST

Wire No.	From Connection P35/J35	To Terminal Board 2TB Terminal No.
2	A	2
2	B	2
5	C	5
6	D	6
11	E	11
13	F	13
19	G	19
20	H	20
21	J	21
7	K	7
23	L	23
51	M	51
8	N	8
9	P	9
106	R	106

GO TO NEXT PAGE

C. CONNECTOR ASSEMBLY J35 REMOVAL — Continued

4. TURN CONNECTOR SLEEVE (1), AND DISCONNECT CONNECTOR P35 (2) FROM RECEPTACLE J35 (3).



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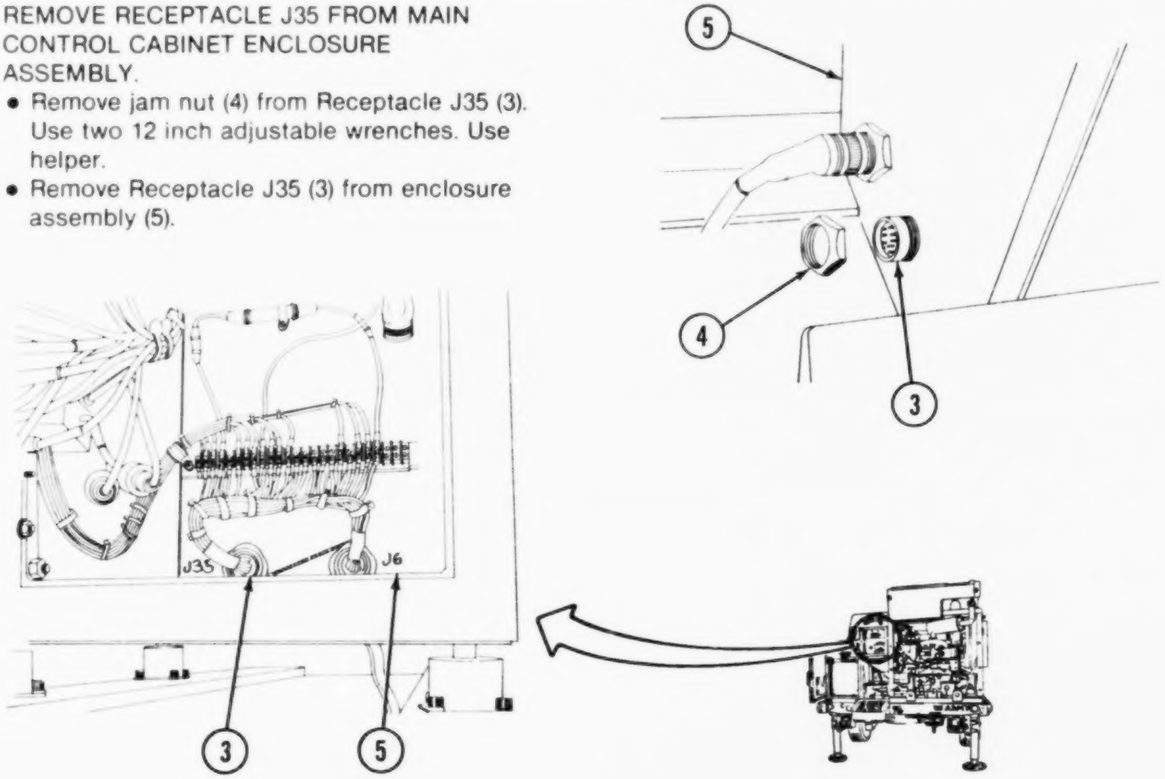
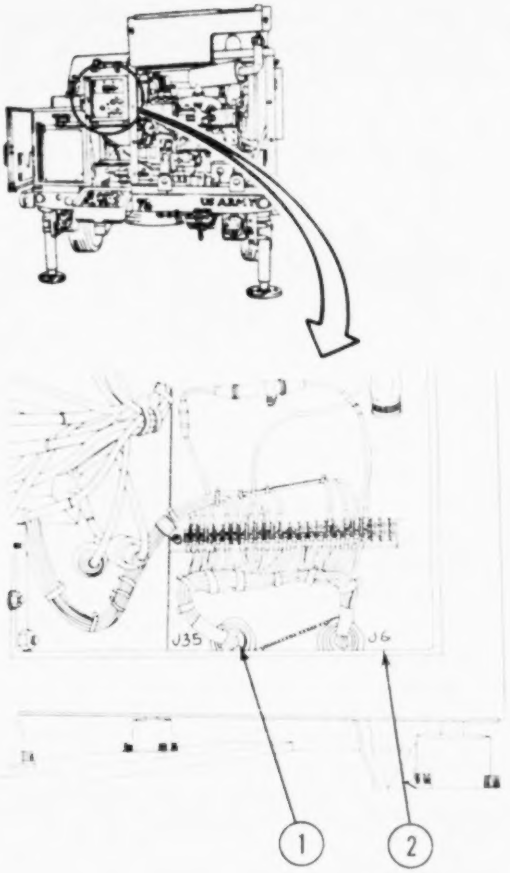
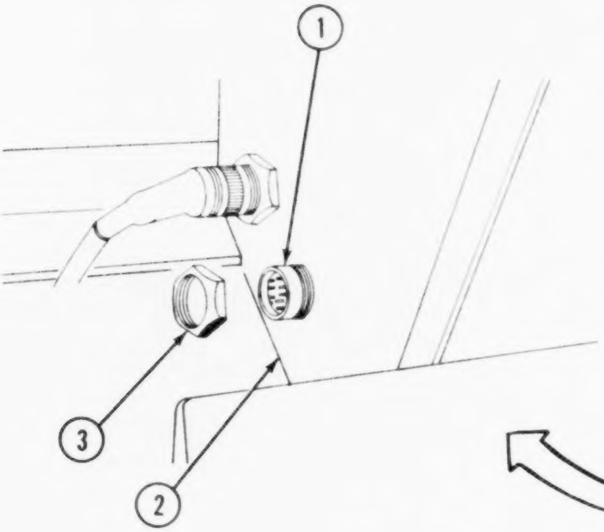
5. REMOVE RECEPTACLE J35 FROM MAIN CONTROL CABINET ENCLOSURE ASSEMBLY.
   - Remove jam nut (4) from Receptacle J35 (3). Use two 12 inch adjustable wrenches. Use helper.
   - Remove Receptacle J35 (3) from enclosure assembly (5).

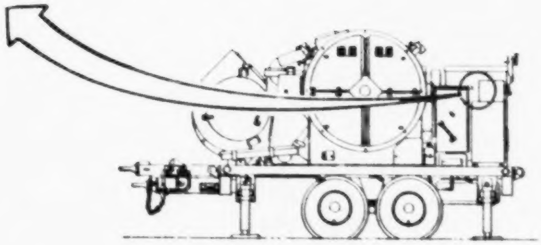


D. CONNECTOR ASSEMBLY J35 INSTALLATION

1. INSTALL RECEPTACLE J35 ON MAIN CONTROL CABINET ENCLOSURE ASSEMBLY.
   - Place and hold Receptacle J35 (1) inside enclosure assembly (2).
   - Install jam nut (3) on Receptacle J35 (1). Use two 12 inch adjustable wrenches. Use helper.







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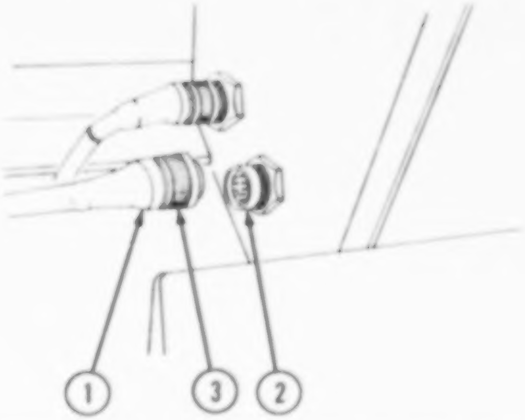
D. CONNECTOR ASSEMBLY J35 INSTALLATION — Continued

2. CONNECT CONNECTOR P35 (1) TO RECEPTACLE J35 (2), AND TURN CONNECTOR SLEEVE (3).



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3. INSTALL 15 CONNECTOR ASSEMBLY J35 LEADS ON TERMINAL BOARD.
   - Install 15 J35 leads (4) and screws (5) on terminal board (6). Use 1/4 inch flat tip screwdriver and screw starter. (See Connector Assembly J35 Wiring Harness Wire Destination List, Page 12-9.)
   - Remove tags from leads.

4. INSTALL NEW SAFETY WIRE ON RECEPTACLES J6 AND J35. (SEE CONNECTOR ASSEMBLIES J6, J35, AND CYCLING SWITCH, PAGE 12-8.)

5. CLOSE MAIN CONTROL PANEL. (SEE CONNECTOR ASSEMBLIES J6, J35, AND CYCLING SWITCH, PAGE 12-8.)

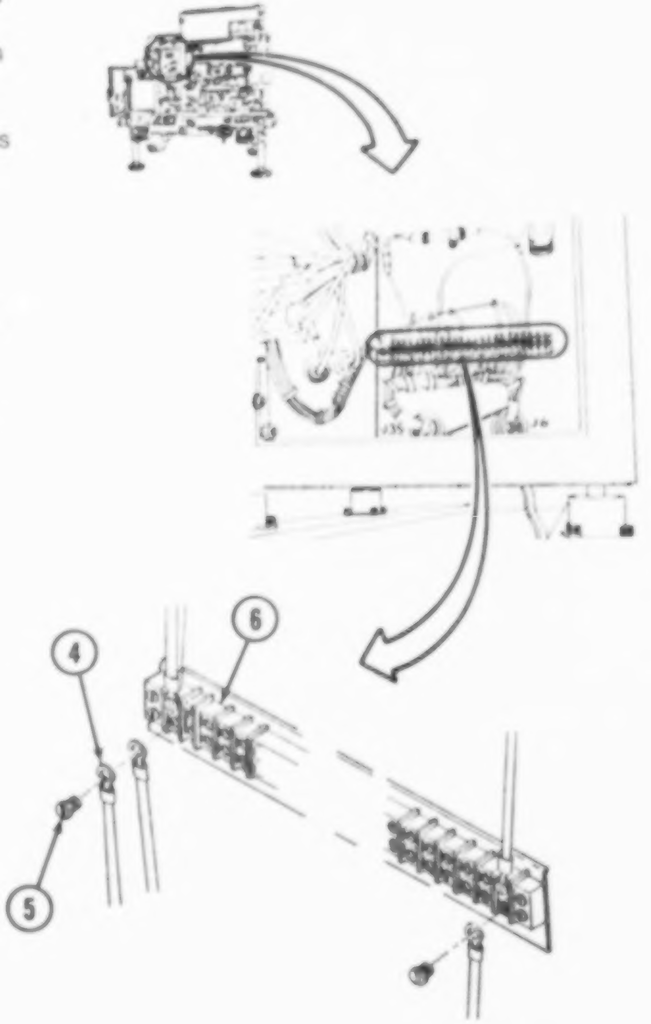
NOTE

FOLLOW-ON MAINTENANCE:

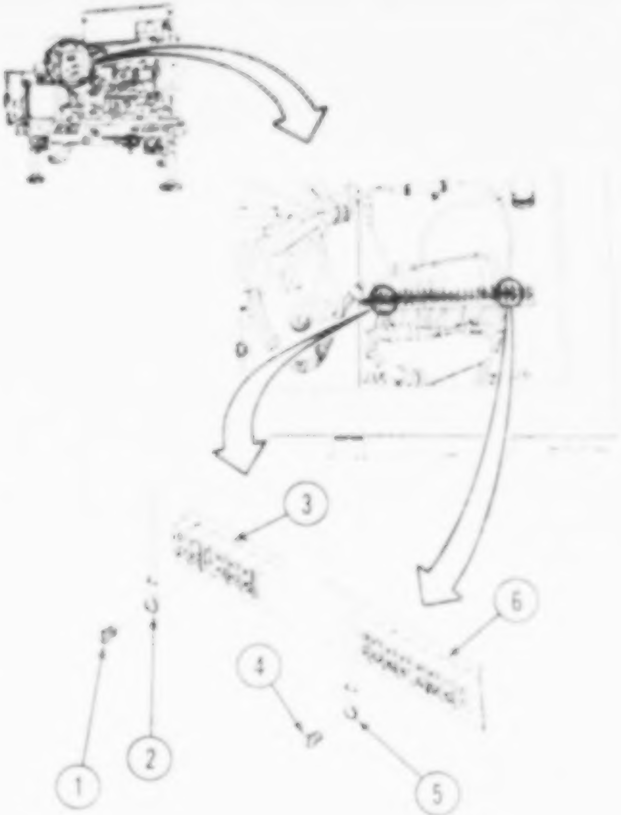
Close Main Control Panel Door. (See TM 9-1095-205-10.)

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)

Close Right Battery Box Cover. (See TM 9-1095-205-10.)



E. CYCLING SWITCH REMOVAL



NOTE

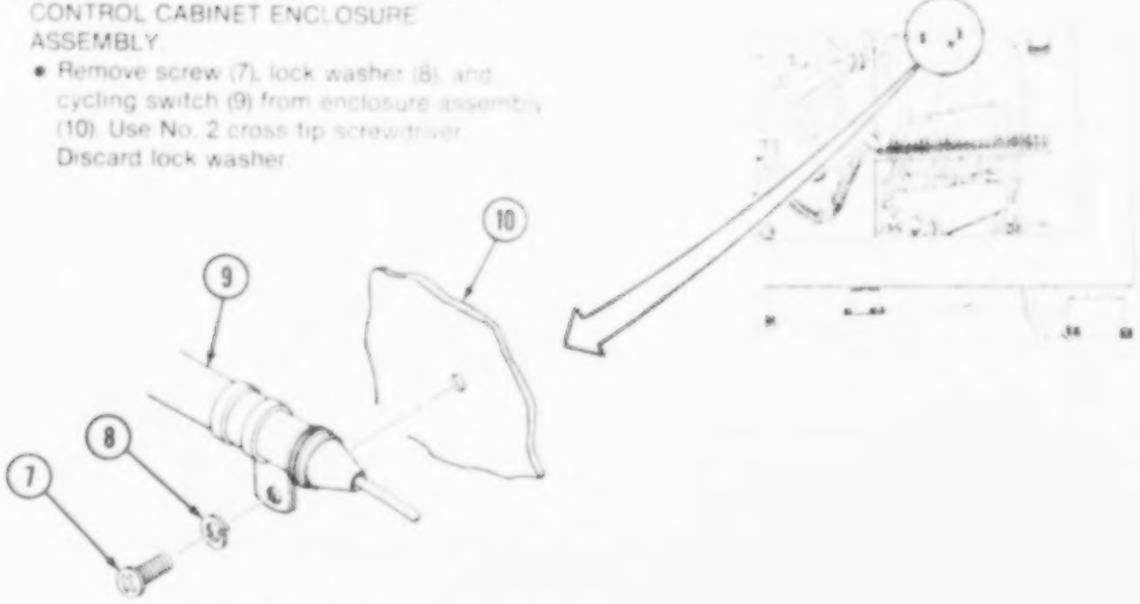
PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open Main Control Panel Door. (See TM 9-1095-205-10.)

1. OPEN MAIN CONTROL PANEL. (SEE CONNECTOR ASSEMBLIES J6, J35, AND CYCLING SWITCH, PAGE 12-3.)

2. REMOVE LEADS 5 AND 81 FROM TERMINAL BOARD.
   - Tag and mark leads.
   - Remove screw (1) and Lead 5 (2) from terminal board Terminal 5 (3). Use 1/4 inch flat tip screwdriver.
   - Remove screw (4) and Lead 81 (5) from terminal board Terminal 81 (6). Use 1/4 inch flat tip screwdriver.

3. REMOVE CYCLING SWITCH FROM MAIN CONTROL CABINET ENCLOSURE ASSEMBLY.
   - Remove screw (7), lock washer (8), and cycling switch (9) from enclosure assembly (10). Use No. 2 cross tip screwdriver. Discard lock washer.



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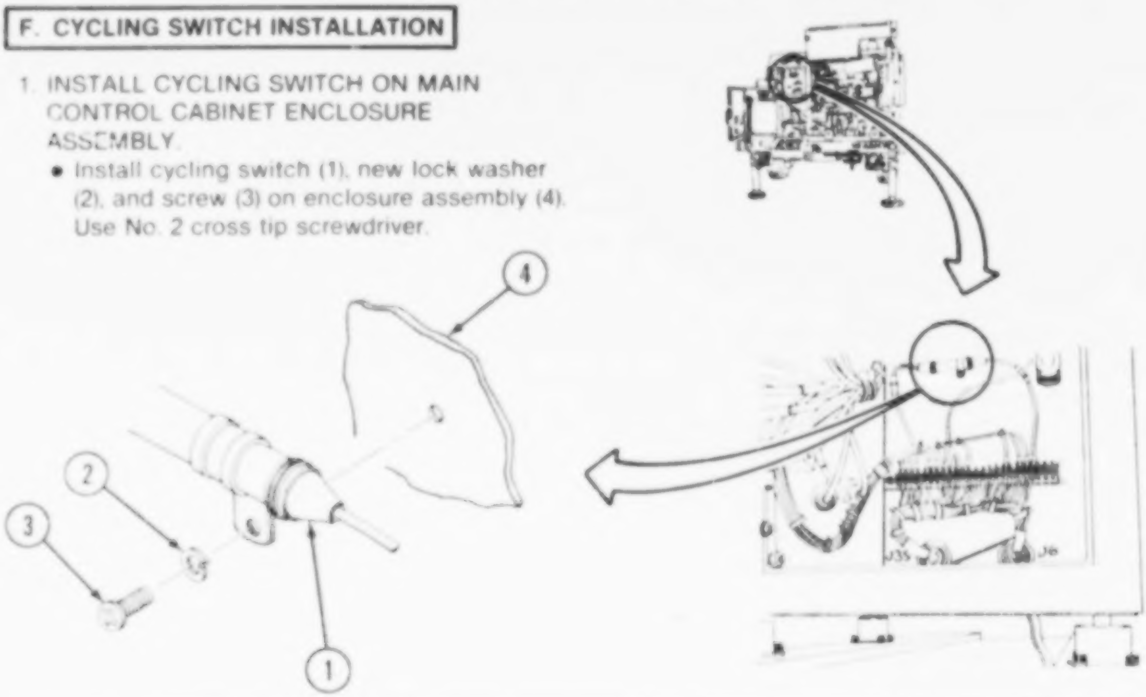
12-1 CONNECTOR ASSEMBLIES J6, J35, AND CYCLING SWITCH — Continued

F. CYCLING SWITCH INSTALLATION

1. INSTALL CYCLING SWITCH ON MAIN CONTROL CABINET ENCLOSURE ASSEMBLY.
   - Install cycling switch (1), new lock washer (2), and screw (3) on enclosure assembly (4). Use No. 2 cross tip screwdriver.



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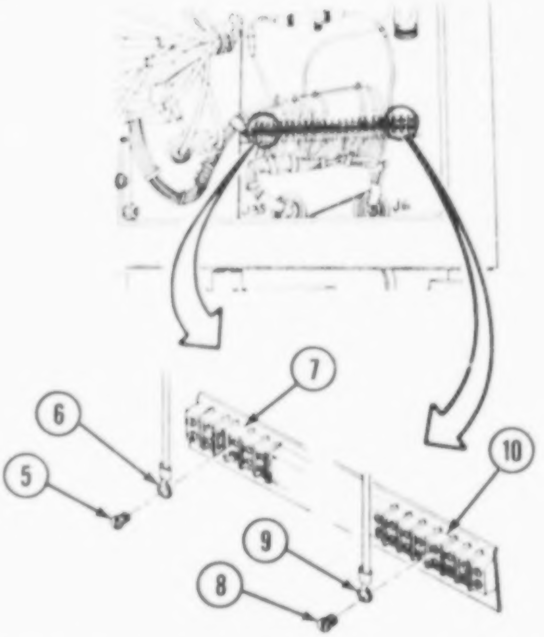
2. INSTALL LEADS 5 AND 81 ON TERMINAL BOARD.
   - Install screw (5) and Lead 5 (6) on terminal board Terminal 5 (7). Use 1/4 inch flat tip screwdriver.
   - Install screw (8) and Lead 81 (9) on terminal board Terminal 81 (10). Use 1/4 inch flat tip screwdriver.
   - Remove tags from leads.
3. CLOSE MAIN CONTROL PANEL. (SEE CONNECTOR ASSEMBLIES J6, J35, AND CYCLING SWITCH, PAGE 12-8.)



NOTE

FOLLOW-ON MAINTENANCE:

Close Main Control Panel Door. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)

END OF TASK

12-5 MAIN CONTROL PANEL WIRING HARNESS AND TERMINAL BOARD

DESCRIPTION

This task covers:
A. TERMINAL BOARD REMOVAL (p 12-15)
B. TERMINAL BOARD INSTALLATION (p 12-18)
C. WIRING HARNESS REMOVAL (p 12-20)
D. WIRING HARNESS INSTALLATION (p 12-25)

INITIAL SETUP

Tools and Special Tools:
General mechanic's tool kit
5180-00-177-7033:
  No. 2 cross tip screwdriver
  1/4 inch flat tip screwdriver
  3/8 inch open end wrench
  3/8 inch socket
  7/16 inch socket
  Ratchet handle
  2 inch extension

Materials/Parts:
Lock washer 5310-00-579-5752
Lock washer (4) 5310-00-193-7577
Self-locking nut (2) 5310-00-877-5797
Lock washer 5310-00-045-3296
Lock washer (2) 5310-00-579-0079

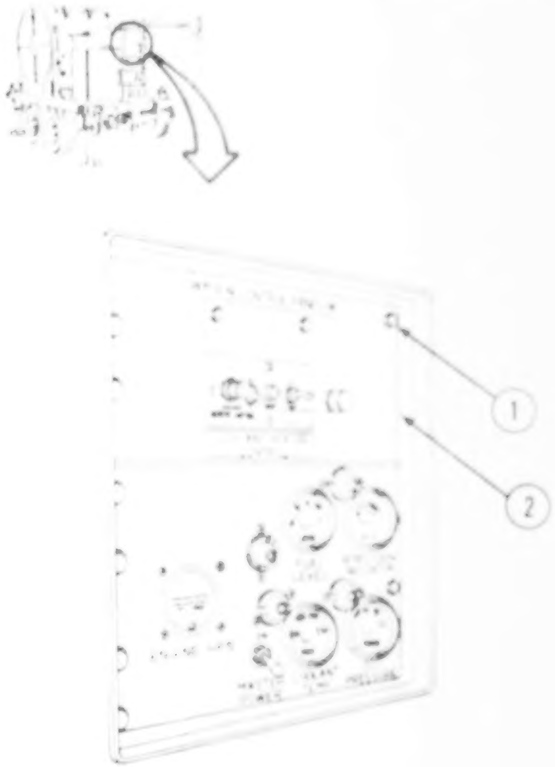
References:
TM 9-1095-205-10
TM 9-1095-205-20

A. TERMINAL BOARD REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open Main Control Panel Door. (See TM 9-1095-205-10.)

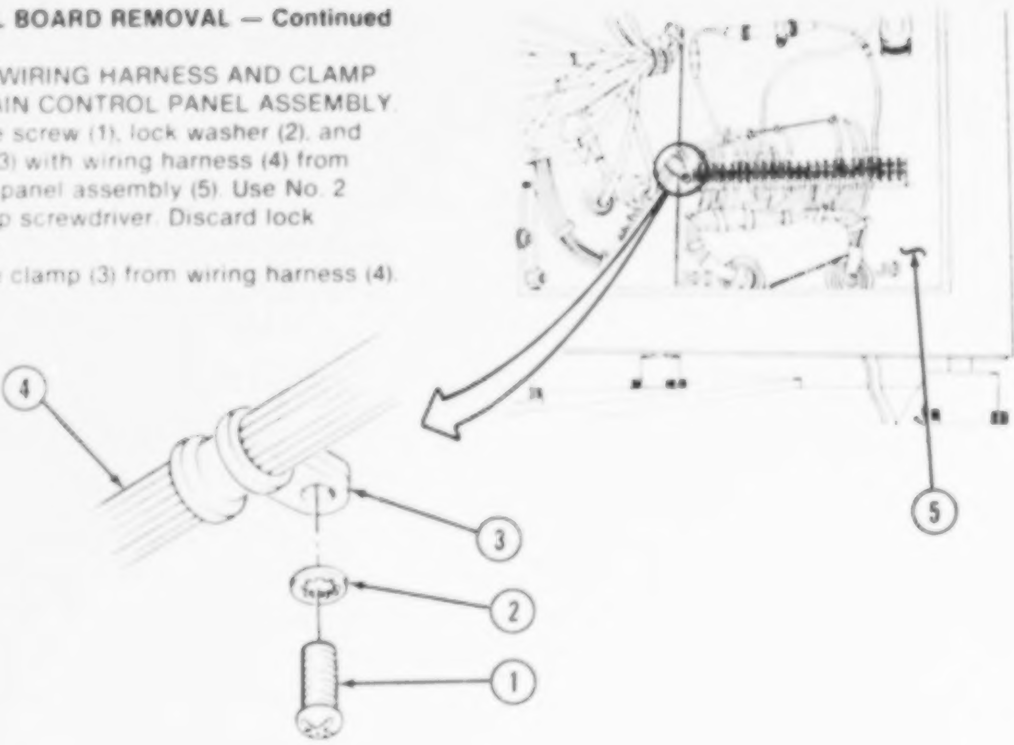
1. OPEN MAIN CONTROL PANEL
   - Remove two screws (1) from control panel (2). Use 7/16 inch socket with 2 inch extension and ratchet handle.
   - Open control panel (2).



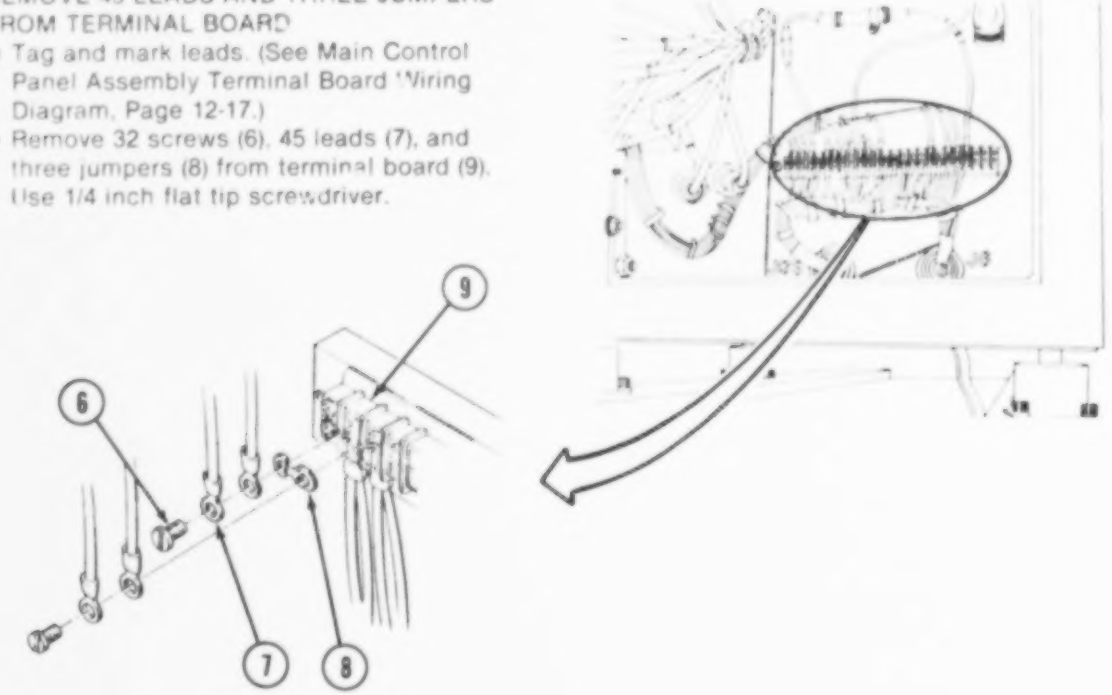
GO TO NEXT PAGE

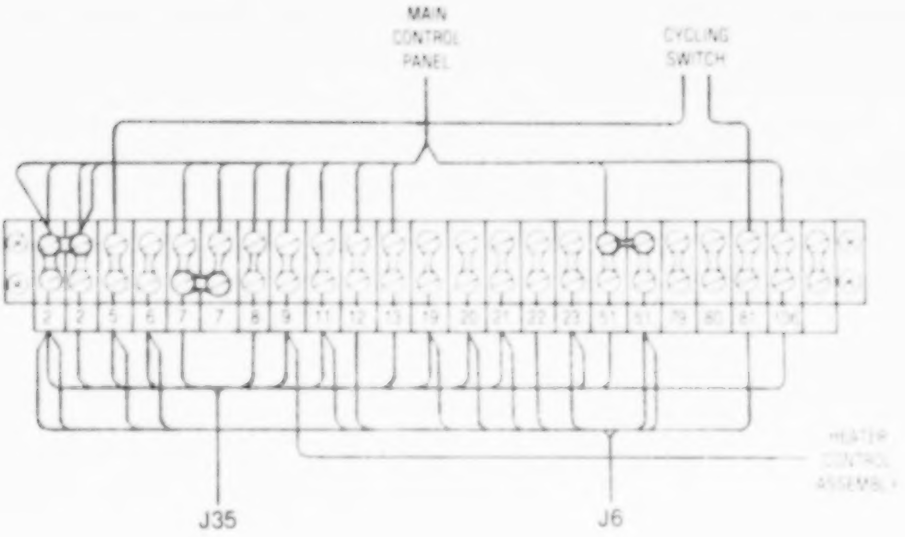
A. TERMINAL BOARD REMOVAL — Continued

2. REMOVE WIRING HARNESS AND CLAMP FROM MAIN CONTROL PANEL ASSEMBLY.
   - Remove screw (1), lock washer (2), and clamp (3) with wiring harness (4) from control panel assembly (5). Use No. 2 cross tip screwdriver. Discard lock washer.
   - Remove clamp (3) from wiring harness (4).



3. REMOVE 45 LEADS AND THREE JUMPERS FROM TERMINAL BOARD.
   - Tag and mark leads. (See Main Control Panel Assembly Terminal Board Wiring Diagram, Page 12-17.)
   - Remove 32 screws (6), 45 leads (7), and three jumpers (8) from terminal board (9). Use 1/4 inch flat tip screwdriver.





Main Control Panel Assembly Terminal Board Wiring Diagram

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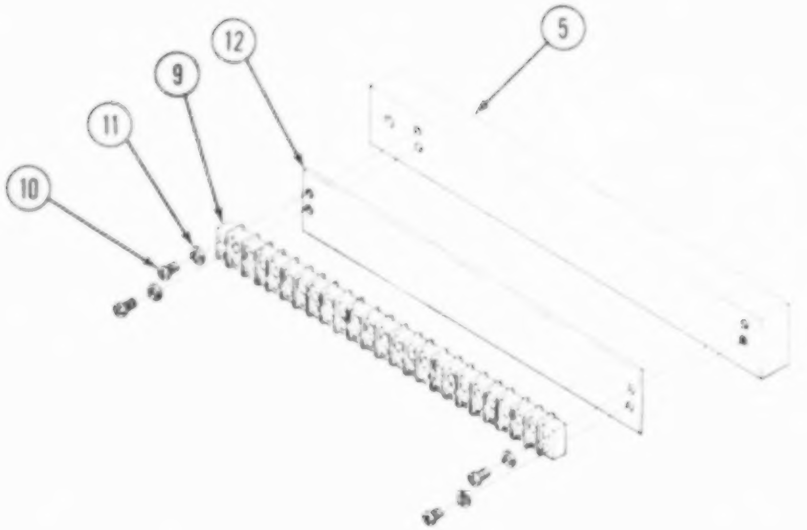
4. REMOVE TERMINAL BOARD AND TERMINAL MARKER STRIP FROM MAIN CONTROL PANEL ASSEMBLY.
   - Remove four screws (10), lock washers (11), terminal board (9), and marker strip (12) from control panel assembly (5). Use No. 2 cross tip screwdriver. Discard lock washers.



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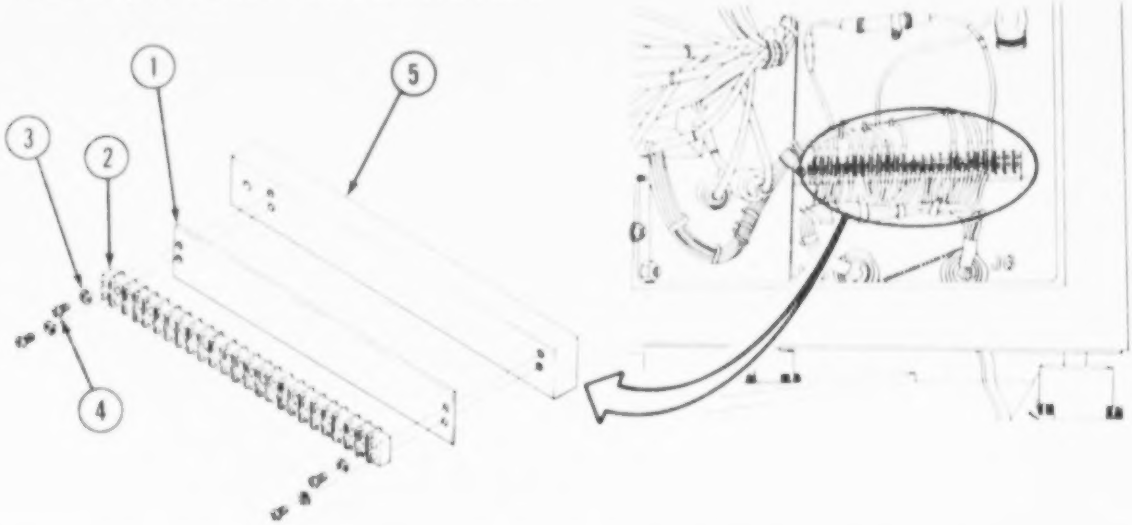
12-5 MAIN CONTROL PANEL WIRING HARNESS AND TERMINAL BOARD — Continued

B. TERMINAL BOARD INSTALLATION

1. INSTALL TERMINAL MARKER STRIP AND TERMINAL BOARD ON MAIN CONTROL PANEL ASSEMBLY.
   - Install marker strip (1), terminal board (2), four new lock washers (3), and screws (4) on control panel assembly (5). Use No. 2 cross tip screwdriver.



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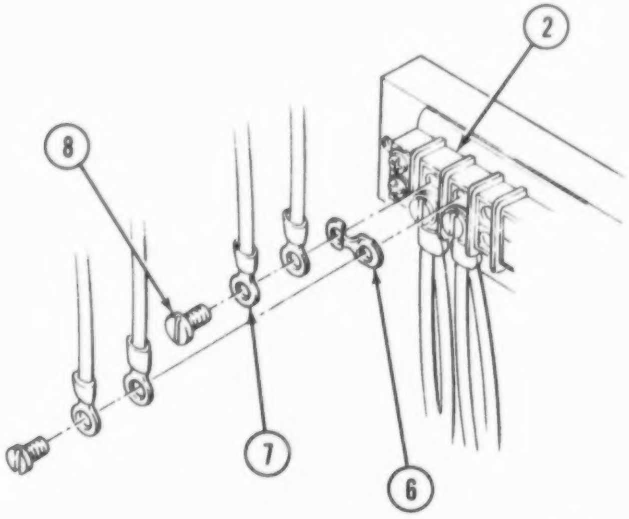
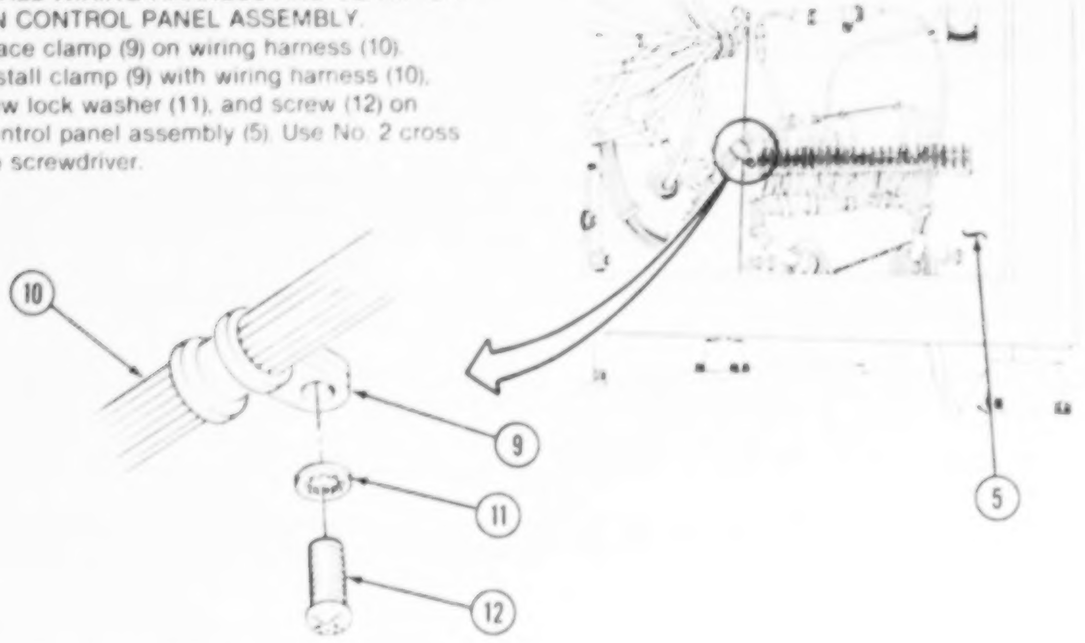
2. INSTALL THREE JUMPERS AND 45 LEADS ON TERMINAL BOARD.
   - Install three jumpers (6), 45 leads (7), and 32 screws (8) on terminal board (2). Use 1/4 inch flat tip screwdriver. (See Main Control Panel Assembly Terminal Board Wiring Diagram, Page 12-17.)
   - Remove tags from leads.



3. INSTALL WIRING HARNESS AND CLAMP ON MAIN CONTROL PANEL ASSEMBLY.
   - Place clamp (9) on wiring harness (10).
   - Install clamp (9) with wiring harness (10), new lock washer (11), and screw (12) on control panel assembly (5). Use No. 2 cross tip screwdriver.



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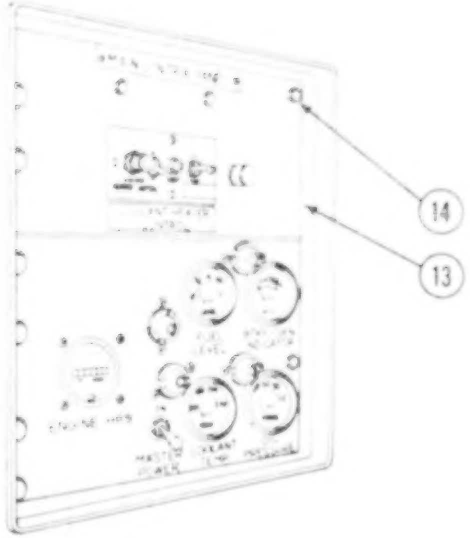
4. CLOSE MAIN CONTROL PANEL.
   - Close control panel (13).
   - Install two screws (14) on control panel (13). Use 7/16 inch socket with 2 inch extension and ratchet handle.



NOTE

FOLLOW-ON MAINTENANCE:

Close Main Control Panel Door. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)

GO TO NEXT PAGE

12-5 MAIN CONTROL PANEL WIRING HARNESS AND TERMINAL BOARD — Continued

C. WIRING HARNESS REMOVAL

NOTE

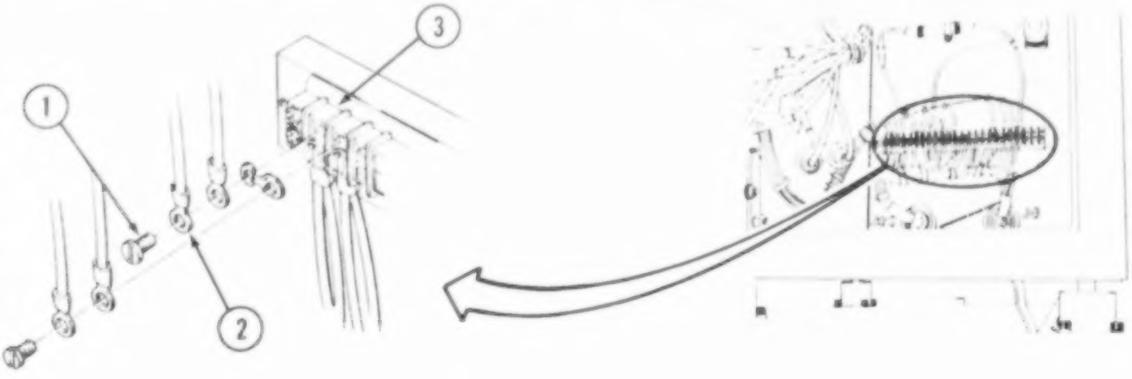
PRELIMINARY PROCEDURES:

Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open Main Control Panel Door. (See TM 9-1095-205-10.)

1. OPEN MAIN CONTROL PANEL. (SEE MAIN CONTROL PANEL WIRING HARNESS AND TERMINAL BOARD, PAGE 12-15.)

2. REMOVE WIRING HARNESS AND CLAMP FROM MAIN CONTROL PANEL ASSEMBLY. (SEE MAIN CONTROL PANEL WIRING HARNESS AND TERMINAL BOARD, PAGE 12-16.)

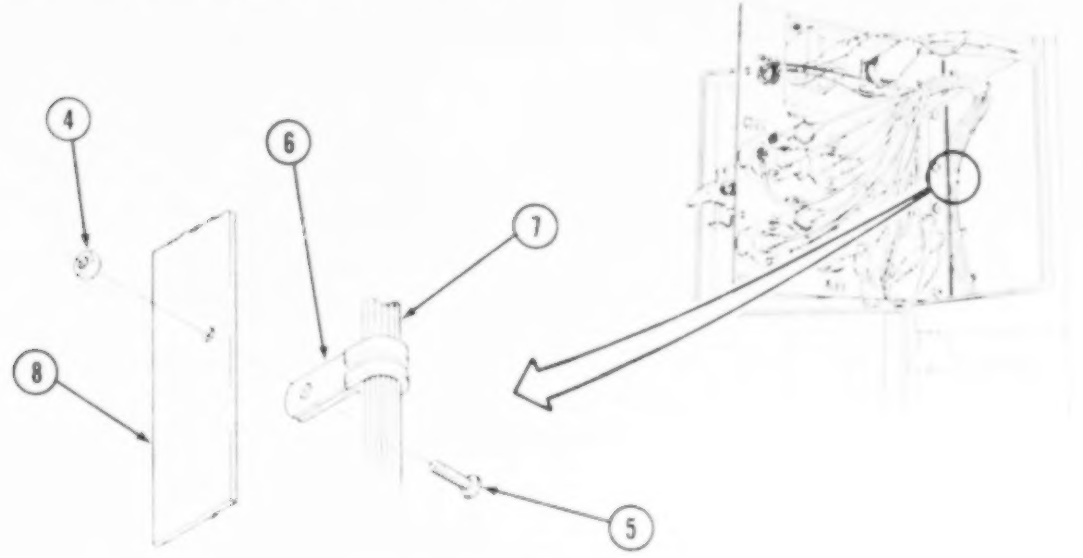
3. REMOVE 12 MAIN CONTROL PANEL ASSEMBLY WIRING HARNESS LEADS FROM TERMINAL BOARD.
   - Tag and mark leads. (See following Main Control Panel Wiring Harness Wire Destination List.)
   - Remove 11 screws (1) and 12 leads (2) from terminal board (3). Use 1/4 inch flat tip screwdriver.



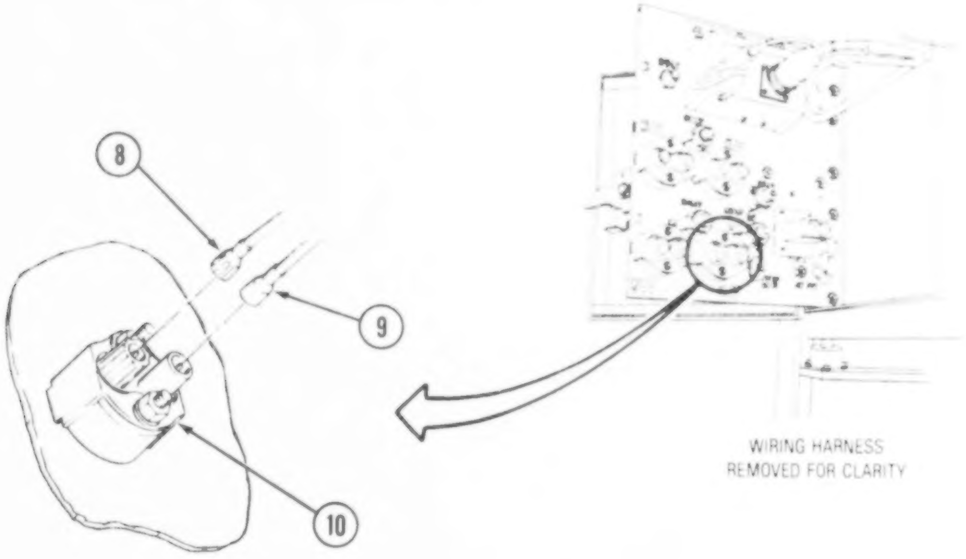
MAIN CONTROL PANEL WIRING HARNESS WIRE DESTINATION LIST

Wire No.	From 2TB Terminal No.	Destination
2	2	ITT
2	2	89LT
2	2	3M
7	7	89LT,6M, 91LT, 3M, 92LT, 93LT, 94LT, 5M
8	8	1SW
9	9	1SW
11	11	4M
12	12	5M
13	13	6M
51	51	ITT
106	106	4M

4. REMOVE WIRING HARNESS AND FRONT CLAMP FROM MAIN CONTROL PANEL ASSEMBLY.
   - Remove self-locking nut (4), screw (5), and clamp (6) with wiring harness (7) from control panel assembly (8). Use No. 2 cross tip screwdriver and 3/8 inch open end wrench. Discard self-locking nut.
   - Remove clamp (6) from wiring harness (7).



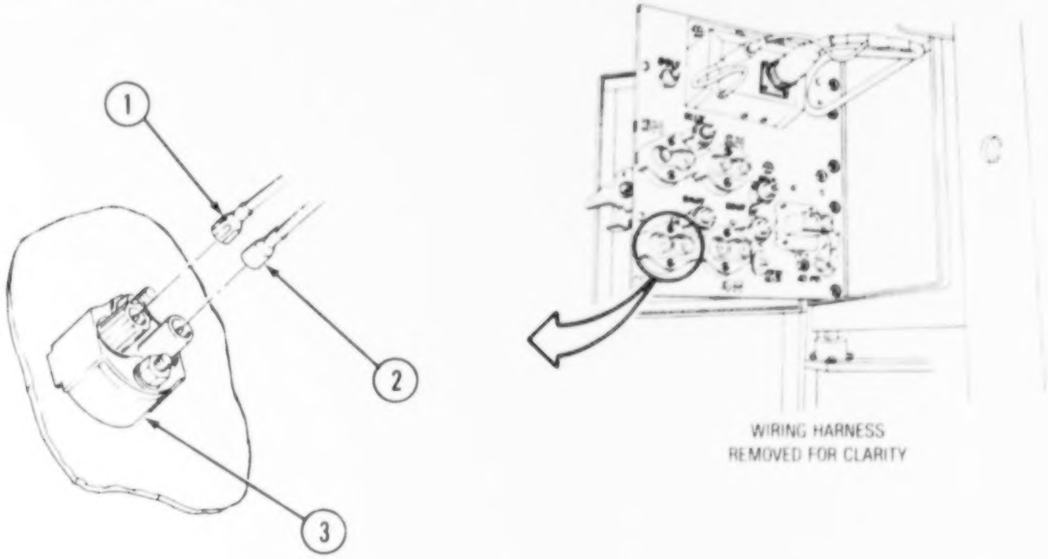
5. DISCONNECT CONNECTORS 106 AND 11 FROM COOLANT TEMP GAGE (4M).
   - Tag and mark connectors.
   - Disconnect Connector 106 (8) and Connector 11 (9) from gage (10).



GO TO NEXT PAGE

C. WIRING HARNESS REMOVAL — Continued

6. DISCONNECT OIL PRESSURE GAGE CONNECTORS 12 AND 7 FROM OIL PRESSURE GAGE (5M).
   - Tag and mark connectors.
   - Disconnect Connector 12 (1) and Connector 7 (2) from gage (3).



WIRING HARNESS REMOVED FOR CLARITY

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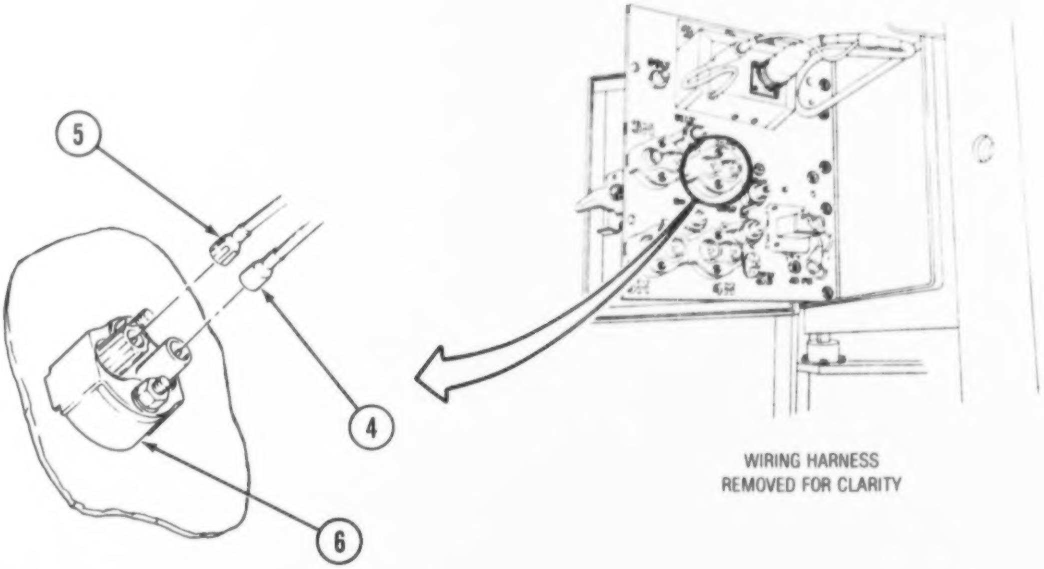
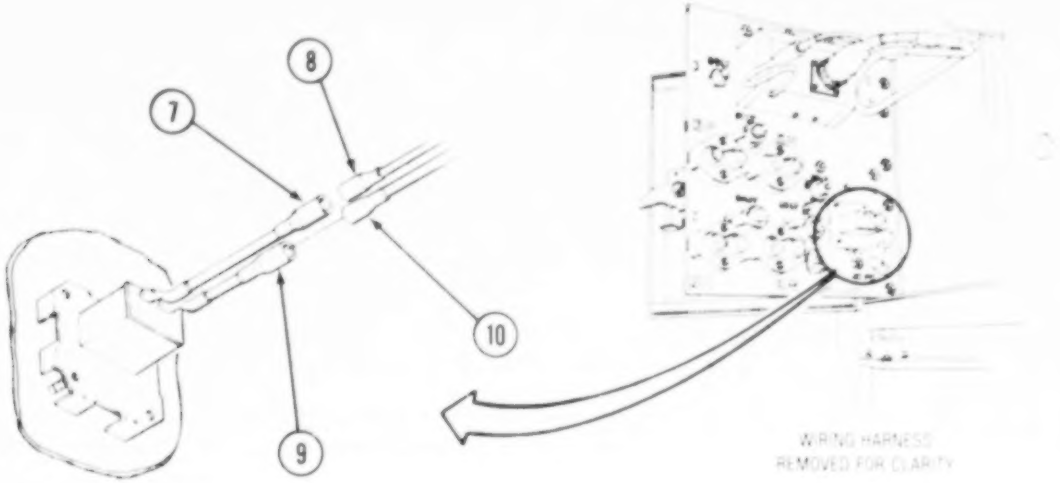
7. DISCONNECT FUEL LEVEL INDICATOR CONNECTORS 7 AND 13 FROM FUEL LEVEL INDICATOR (6M).
   - Tag and mark connectors.
   - Disconnect Connector 7 (4) and Connector 13 (5) from indicator (6).



WIRING HARNESS REMOVED FOR CLARITY

8. DISCONNECT CONNECTORS 51 AND 2 FROM ENGINE HRS METER (2M).
   - Tag and mark connectors.
   - Hold positive pin connector (7), and disconnect Connector 51 (8) from positive pin connector.
   - Hold ground pin connector (9), and disconnect Connector 2 (10) from ground pin connector.



WIRING HARNESS REMOVED FOR CLARITY

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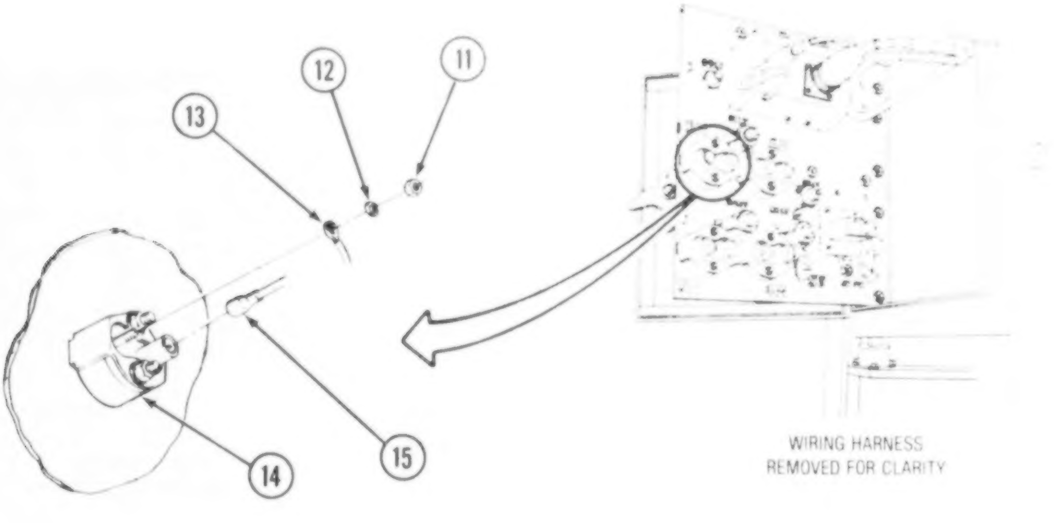
9. REMOVE BTRY/GEN INDICATOR LEAD 2, AND DISCONNECT BTRY/GEN INDICATOR CONNECTOR 7 FROM BTRY/GEN INDICATOR (3M).
   - Tag and mark lead and connector.
   - Remove nut (11), lock washer (12), and Lead 2 (13) from indicator (14). Use 3/8 inch socket with ratchet handle. Discard lock washer.
   - Disconnect Connector 7 (15) from indicator (14).

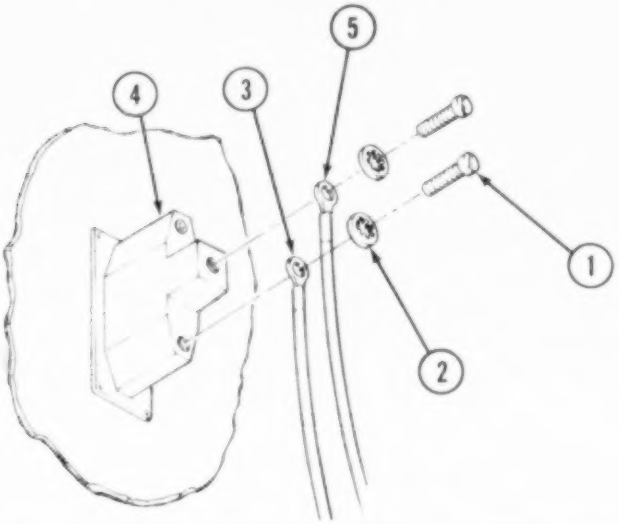


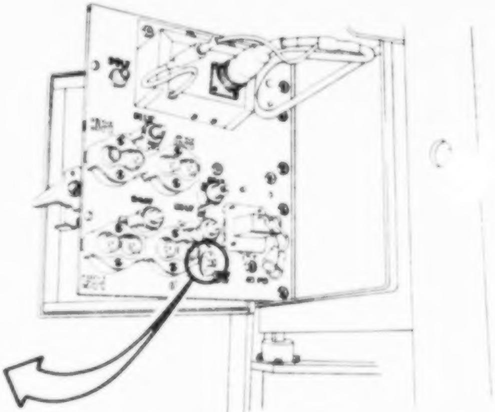
WIRING HARNESS REMOVED FOR CLARITY

GO TO NEXT PAGE

C. WIRING HARNESS REMOVAL — Continued

10. REMOVE LEADS 8 AND 9 FROM MASTER POWER SWITCH (1SW).
    - Tag and mark leads.
    - Remove screw (1), lock washer (2) and Lead 8 (3) from switch (4). Use 1/4 inch flat tip screwdriver. Discard lock washer.
    - Repeat above removal step for Lead 9 (5).





WIRING HARNESS REMOVED FOR CLARITY

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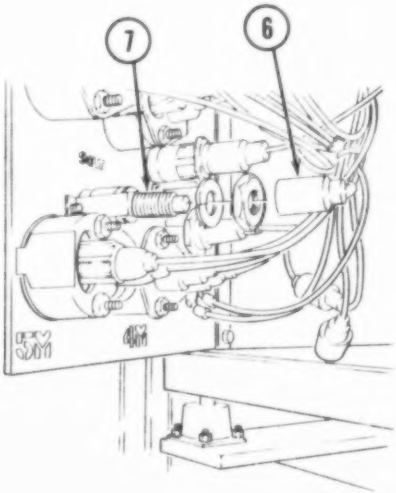
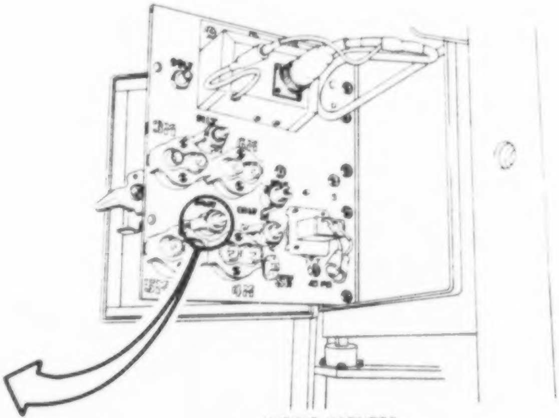
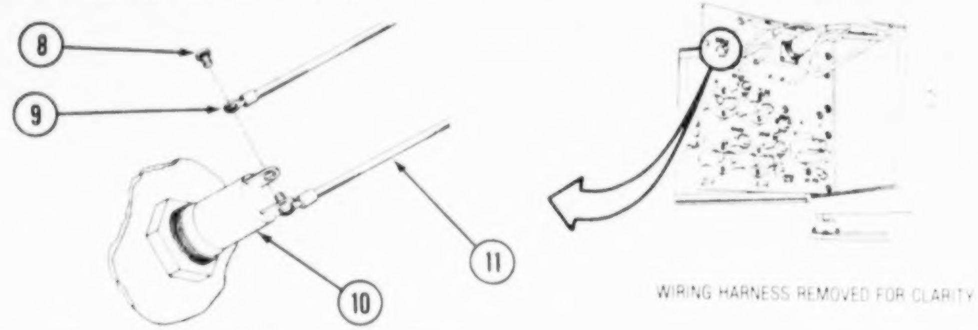
11. DISCONNECT FOUR INDICATOR LIGHT CONNECTORS 7 FROM INDICATOR LIGHTS (91LT, 92LT, 93LT, AND 94LT).
    - Tag and mark connectors.
    - Disconnect Connector 7 (6) from Indicator Light 94LT (7).
    - Repeat above disconnect steps for other three indicator lights.





WIRING HARNESS REMOVED FOR CLARITY

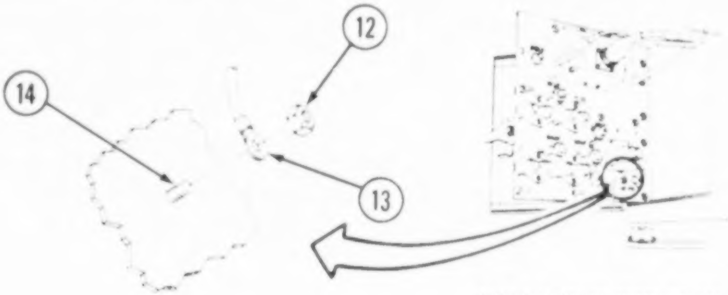
12. REMOVE PANEL LIGHT LEADS 2 AND 7 FROM PANEL LIGHT (89LT).
    - Tag and mark leads.
    - Remove screw (8) and Lead 2 (9) from light (10). Use 1/4 inch flat tip screwdriver.
    - Repeat above removal step for Lead 7 (11).



WIRING HARNESS REMOVED FOR CLARITY

---

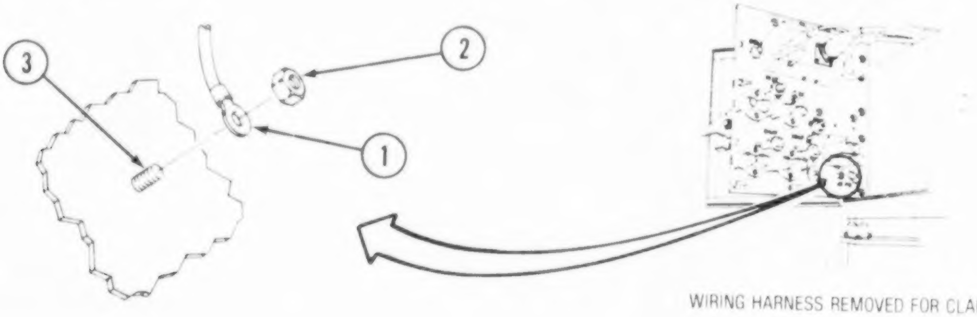
13. REMOVE LEAD 2 FROM PANEL GROUND CONNECTOR.
    - Tag and mark lead.
    - Remove self-locking nut (12) and lead (13) from connector (14). Use No. 2 cross tip screwdriver and 3/8 inch open end wrench. Discard self-locking nut.



WIRING HARNESS REMOVED FOR CLARITY

D. WIRING HARNESS INSTALLATION

1. INSTALL LEAD 2 ON PANEL GROUND CONNECTOR.
    - Install Lead 2 (1) and new self-locking nut (2) on connector (3). Use No. 2 cross tip screwdriver and 3/8 inch open end wrench.
    - Remove tag from lead.

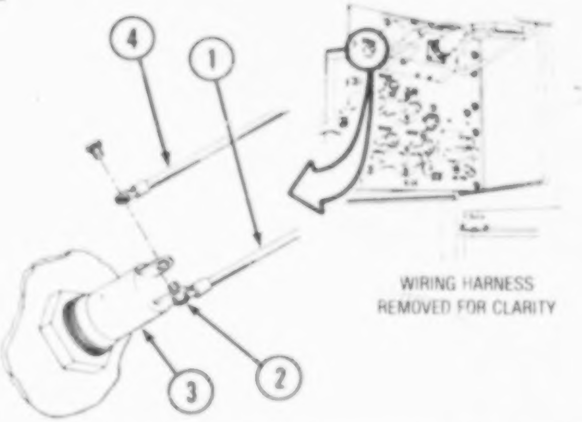


WIRING HARNESS REMOVED FOR CLARITY

GO TO NEXT PAGE

D. WIRING HARNESS INSTALLATION — Continued

2. INSTALL PANEL LIGHT LEADS 7 AND 2 ON PANEL LIGHT (89LT).
   - Install Lead 7 (1) and screw (2) on light (3). Use 1/4 inch flat tip screwdriver.
   - Repeat above installation step for Lead 2 (4).
   - Remove tags from leads.



WIRING HARNESS REMOVED FOR CLARITY

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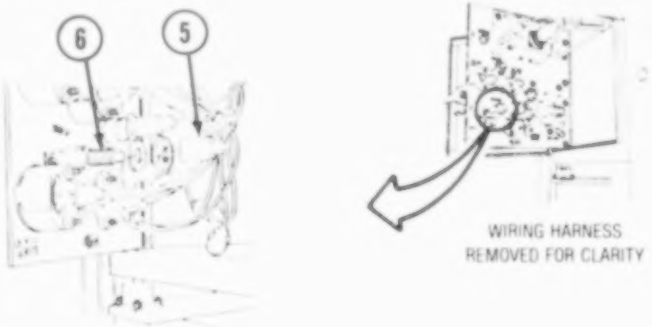
3. CONNECT FOUR INDICATOR LIGHT CONNECTORS 7 TO INDICATOR LIGHTS (91LT, 92LT, 93LT, AND 94LT).
   - Connect Connector 7 (5) to Indicator Light 94LT (6).
   - Repeat above connect step for other three indicator lights.
   - Remove tags from connectors.



WIRING HARNESS REMOVED FOR CLARITY

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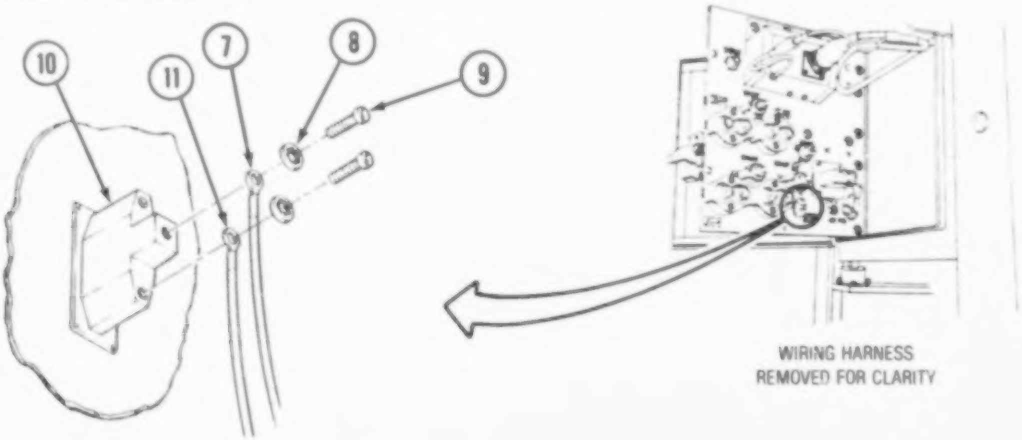
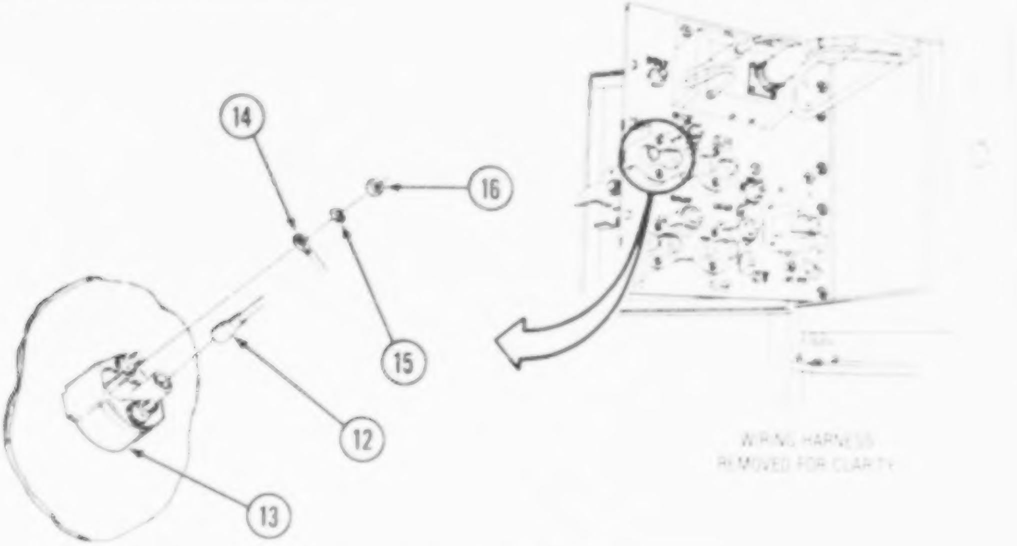
4. INSTALL LEADS 9 AND 8 ON MASTER POWER SWITCH (1SW).
   - Install Lead 9 (7), new lock washer (8), and screw (9) on switch (10). Use 1/4 inch flat tip screwdriver.
   - Repeat above installation step for Lead 8 (11).
   - Remove tags from leads.



WIRING HARNESS REMOVED FOR CLARITY

5. CONNECT BTRY/GEN INDICATOR CONNECTOR 7, AND INSTALL BTRY/GEN INDICATOR LEAD 2 ON BTRY/GEN INDICATOR (3M).
   - Connect Connector 7 (12) to indicator (13).
   - Install Lead 2 (14), new lock washer (15), and nut (16) on indicator (13). Use 3/8 inch socket with ratchet handle.
   - Remove tags from connector and lead.



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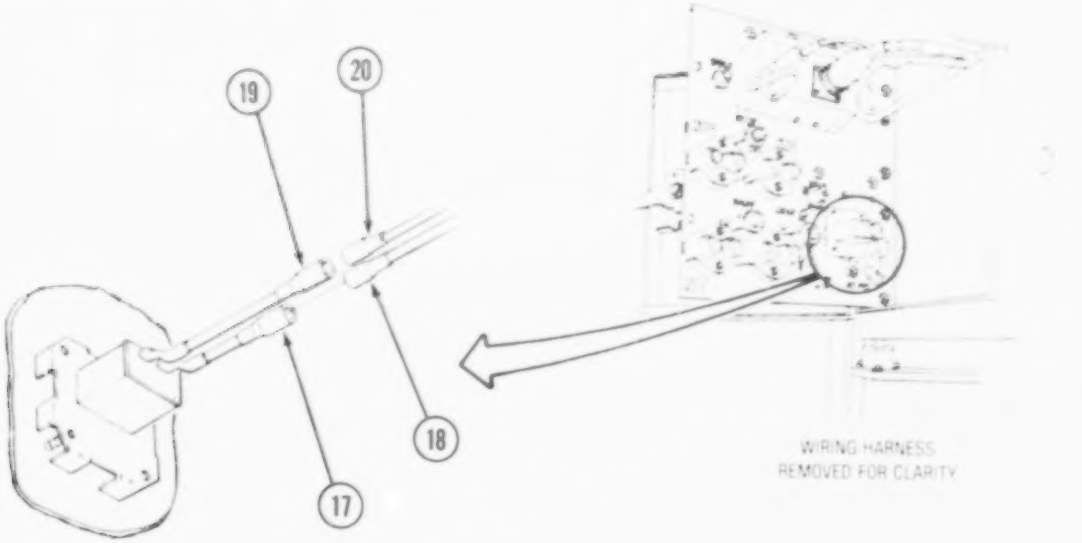
6. CONNECT CONNECTORS 2 AND 51 TO ENGINE HRS METER (2M).
   - Hold ground pin connector (17), and connect Connector 2 (18) to ground pin connector.
   - Hold positive pin connector (19), and connect Connector 51 (20) to positive pin connector.
   - Remove tags from connectors.



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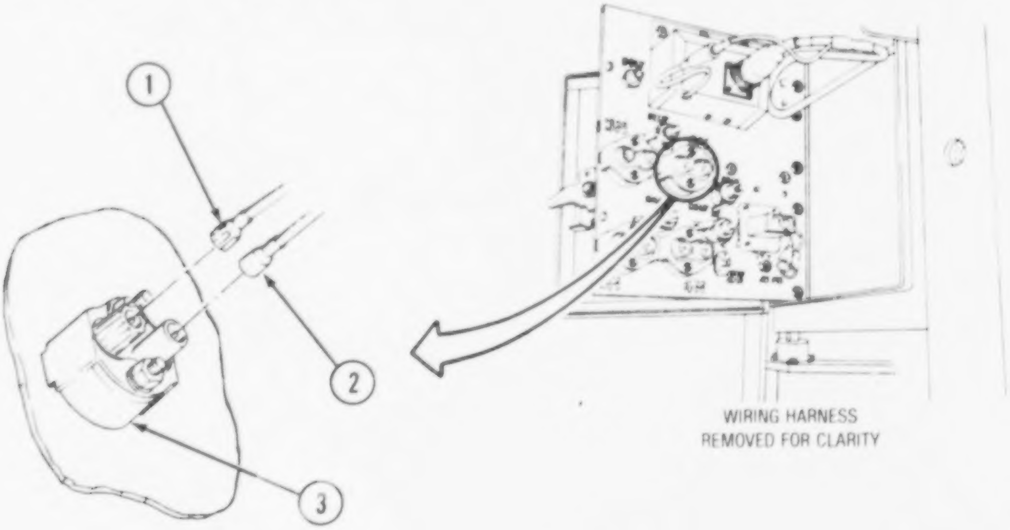
D. WIRING HARNESS INSTALLATION — Continued

7. CONNECT FUEL LEVEL INDICATOR CONNECTORS 13 AND 7 TO FUEL LEVEL INDICATOR (6M).
   - Connect Connector 13 (1) and Connector 7 (2) to indicator (3).
   - Remove tags from connectors.



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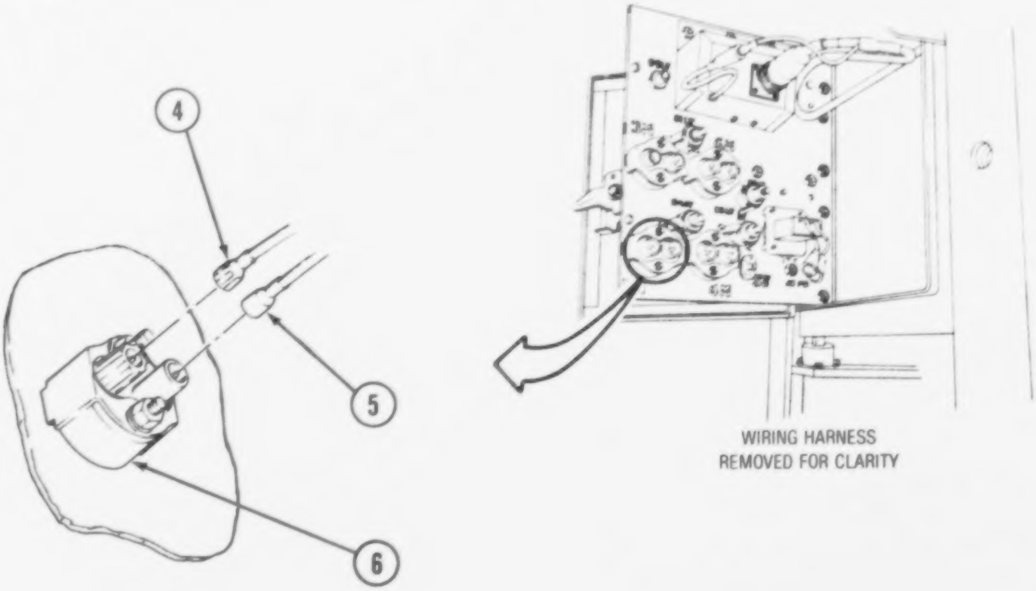
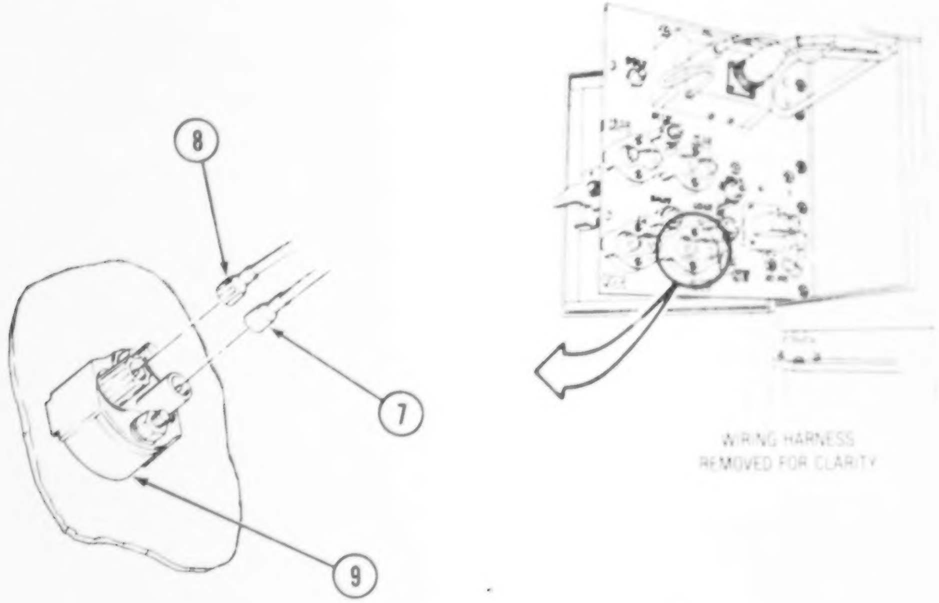
8. CONNECT OIL PRESSURE GAGE CONNECTORS 12 AND 7 TO OIL PRESSURE GAGE (5M).
   - Connect Connector 12 (4) and Connector 7 (5) to gage (6).
   - Remove tags from connectors.



9. CONNECT CONNECTORS 11 AND 106 TO COOLANT TEMP GAGE (4M).
   - Connect Connector 11 (7) and Connector 106 (8) to gage (9).
   - Remove tags from connectors.



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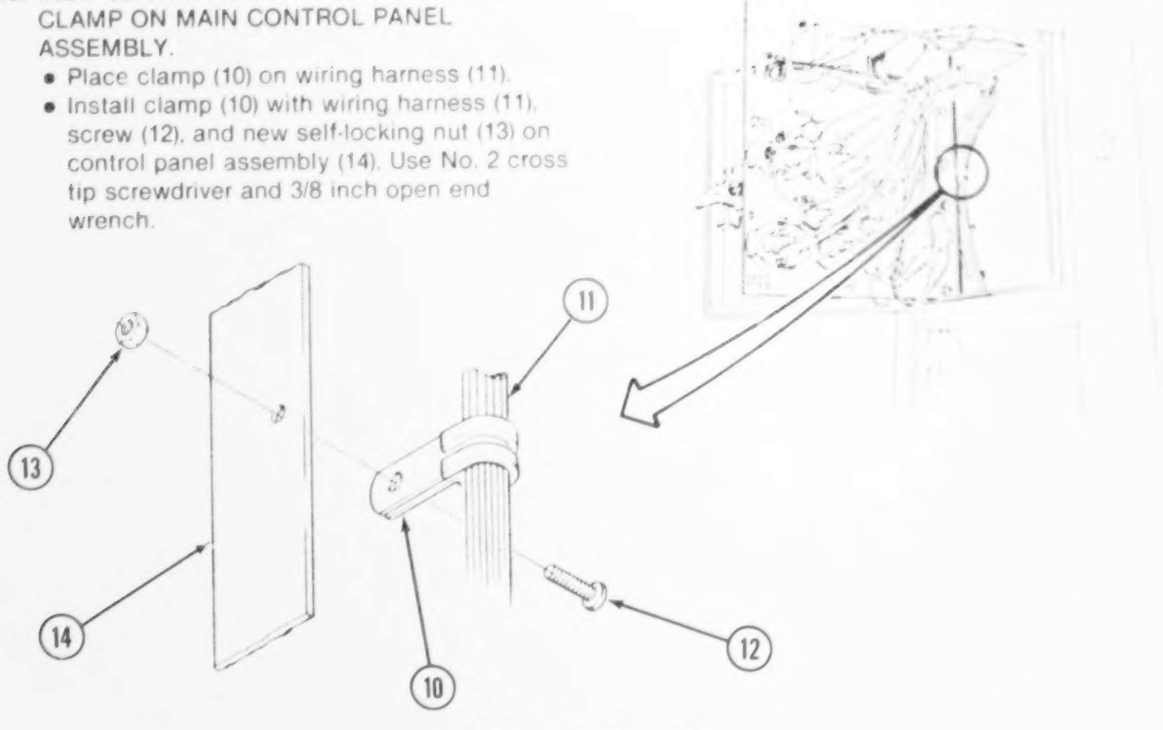
10. INSTALL WIRING HARNESS AND FRONT CLAMP ON MAIN CONTROL PANEL ASSEMBLY.
    - Place clamp (10) on wiring harness (11).
    - Install clamp (10) with wiring harness (11), screw (12), and new self-locking nut (13) on control panel assembly (14). Use No. 2 cross tip screwdriver and 3/8 inch open end wrench.



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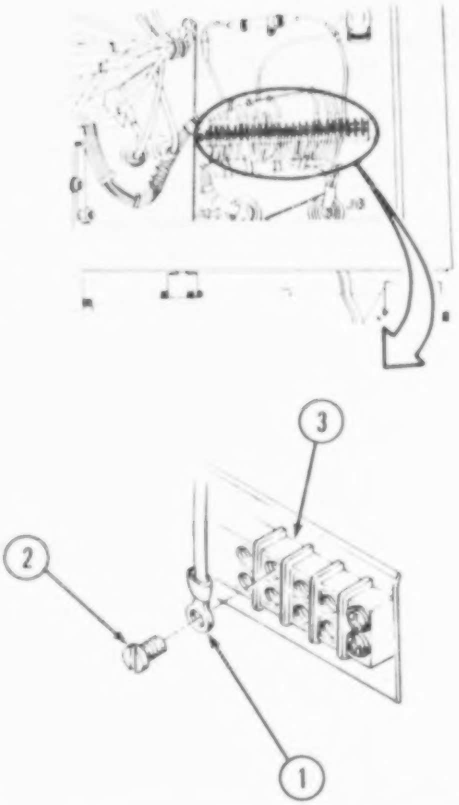
D. WIRING HARNESS INSTALLATION — Continued

11. INSTALL 12 MAIN CONTROL PANEL ASSEMBLY WIRING HARNESS LEADS ON TERMINAL BOARD.
    - Install 12 leads (1) and 11 screws (2) on terminal board (3). Use 1/4 inch flat tip screwdriver. (See Main Control Panel Wiring Harness Wire Destination List, Page 12-20.)
    - Remove tags from leads.
12. INSTALL WIRING HARNESS AND CLAMP ON MAIN CONTROL PANEL ASSEMBLY. (SEE MAIN CONTROL PANEL WIRING HARNESS AND TERMINAL BOARD, PAGE 12-19.)
13. CLOSE MAIN CONTROL PANEL. (SEE MAIN CONTROL PANEL WIRING HARNESS AND TERMINAL BOARD, PAGE 12-19.)



NOTE

FOLLOW-ON MAINTENANCE:
Close Main Control Panel Door. (See TM 9-1095-205-10.)
Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)
Close Right Battery Box Cover. (See TM 9-1095-205-10.)

END OF TASK

12-6 RECEPTACLE CONNECTOR AND CAP

DESCRIPTION

This task covers: A. REMOVAL (p 12-31)
B. INSTALLATION (p 12-33)

INITIAL SETUP

Tools and Special Tools:
General mechanic's tool kit
5180-00-177-7033:
No. 1 cross tip screwdriver
7/16 inch socket
Ratchet handle
2 inch extension
1/4 inch socket 5120-00-236-2264
1/4 inch drive speeder handle 5120-00-242-3256

Materials/Parts:
Self-locking nut (4) 5310-00-088-0551
Gasket 5330-00-298-0190

Personnel Required:
Mechanic
Helper

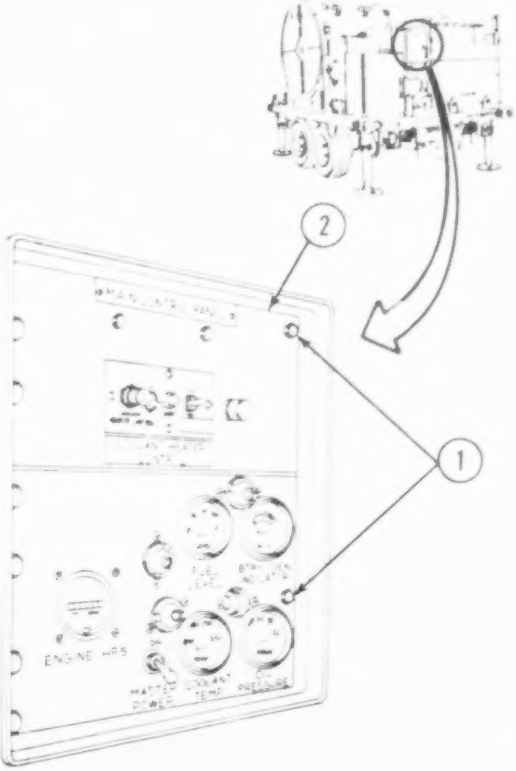
References:
TM 9-1095-205-10
TM 9-1095-205-20

A. REMOVAL

NOTE

PRELIMINARY PROCEDURES:
Open Right Battery Box Cover. (See TM 9-1095-205-10.)
Remove Negative Lead From No. 2 Battery. (See TM 9-1095-205-20.)
Open Main Control Panel Door. (See TM 9-1095-205-10.)

1. OPEN MAIN CONTROL PANEL.
   - Remove screws (1) from panel (2). Use 7/16 inch socket with 2 inch extension and ratchet handle.
   - Open panel (2).



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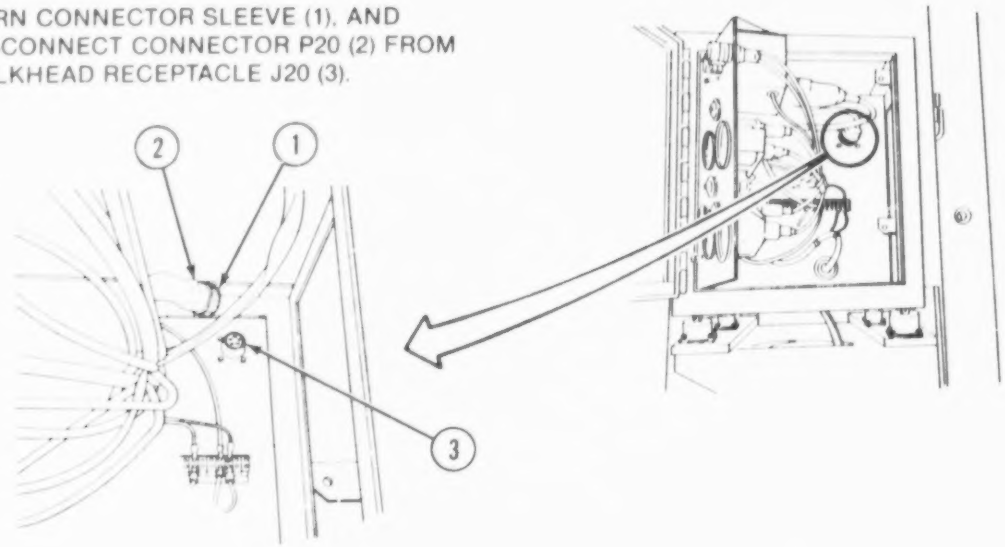
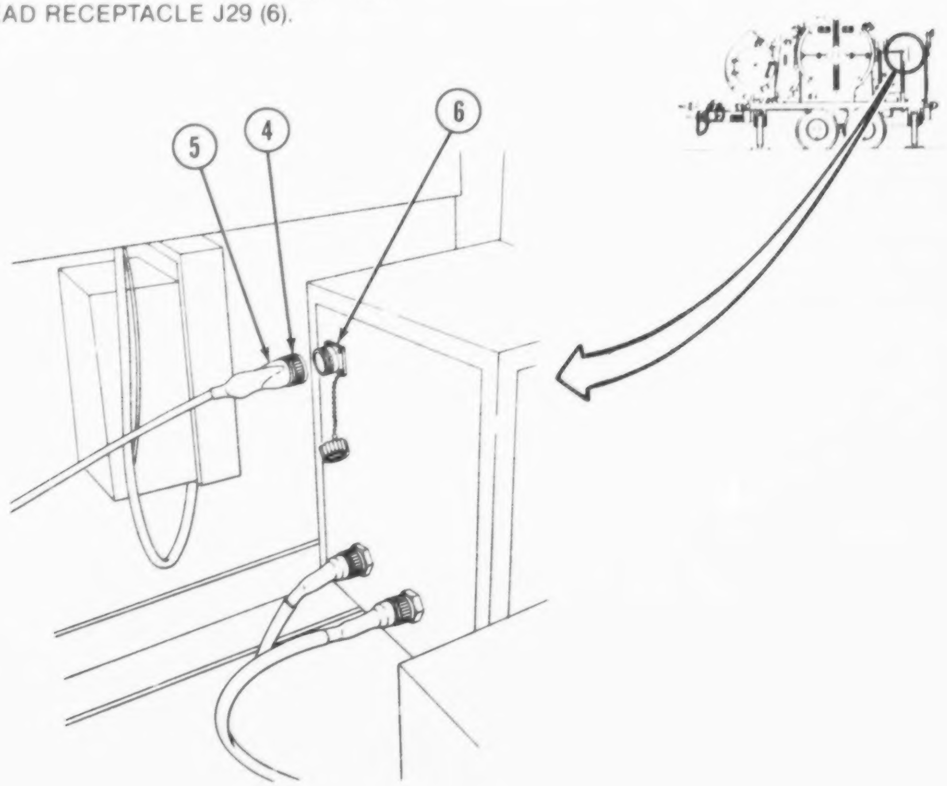
A. REMOVAL — Continued

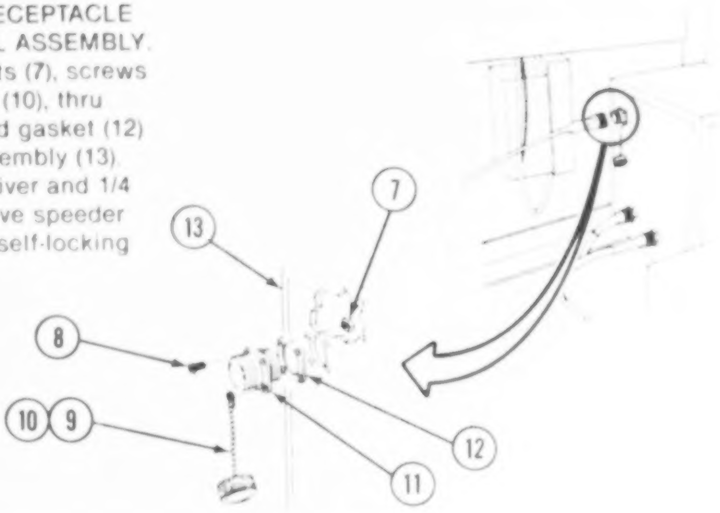
2. TURN CONNECTOR SLEEVE (1), AND DISCONNECT CONNECTOR P20 (2) FROM BULKHEAD RECEPTACLE J20 (3).



3. TURN CONNECTOR SLEEVE (4), AND DISCONNECT CONNECTOR P29 (5) FROM BULKHEAD RECEPTACLE J29 (6).



4. REMOVE THRU BULKHEAD RECEPTACLE FROM MAIN CONTROL PANEL ASSEMBLY.
   - Remove four self-locking nuts (7), screws (8), safety chain (9) with cap (10), thru bulkhead receptacle (11), and gasket (12) from main control panel assembly (13). Use No. 1 cross tip screwdriver and 1/4 inch socket with 1/4 inch drive speeder handle. Use helper. Discard self-locking nuts and gasket.

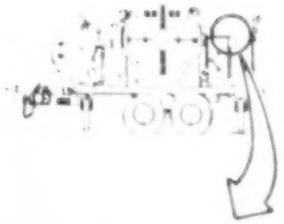


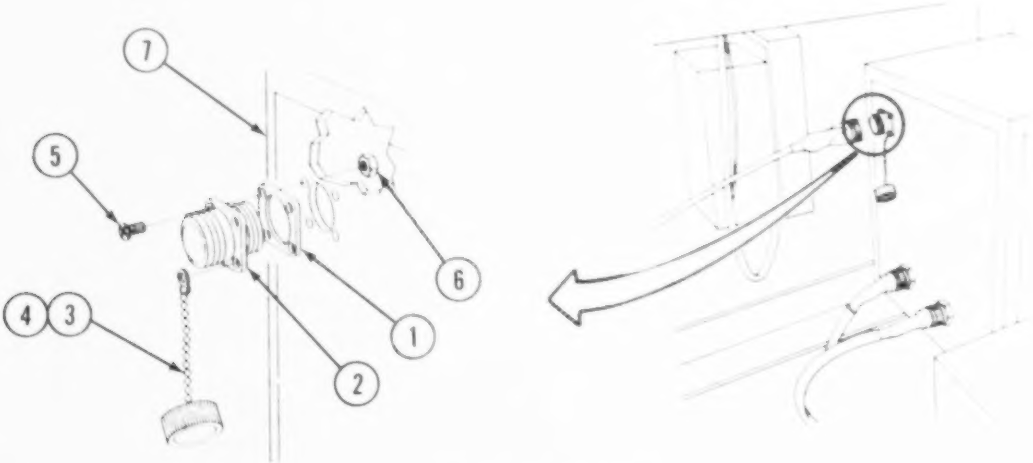
B. INSTALLATION

NOTE

Install thru bulkhead receptacle with mounting flange and connector sleeve on outside of main control panel assembly.

1. INSTALL THRU BULKHEAD RECEPTACLE ON MAIN CONTROL PANEL ASSEMBLY.
   - Install new gasket (1), thru bulkhead receptacle (2), safety chain (3) with cap (4), four screws (5), and new self-locking nuts (6) on main control panel assembly (7). Use No. 1 cross tip screwdriver and 1/4 inch socket with 1/4 inch drive speeder handle. Use helper.





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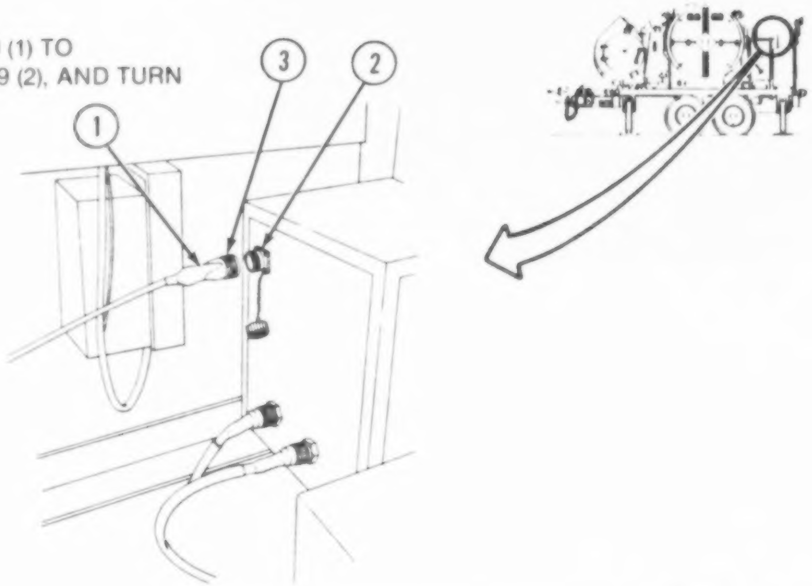
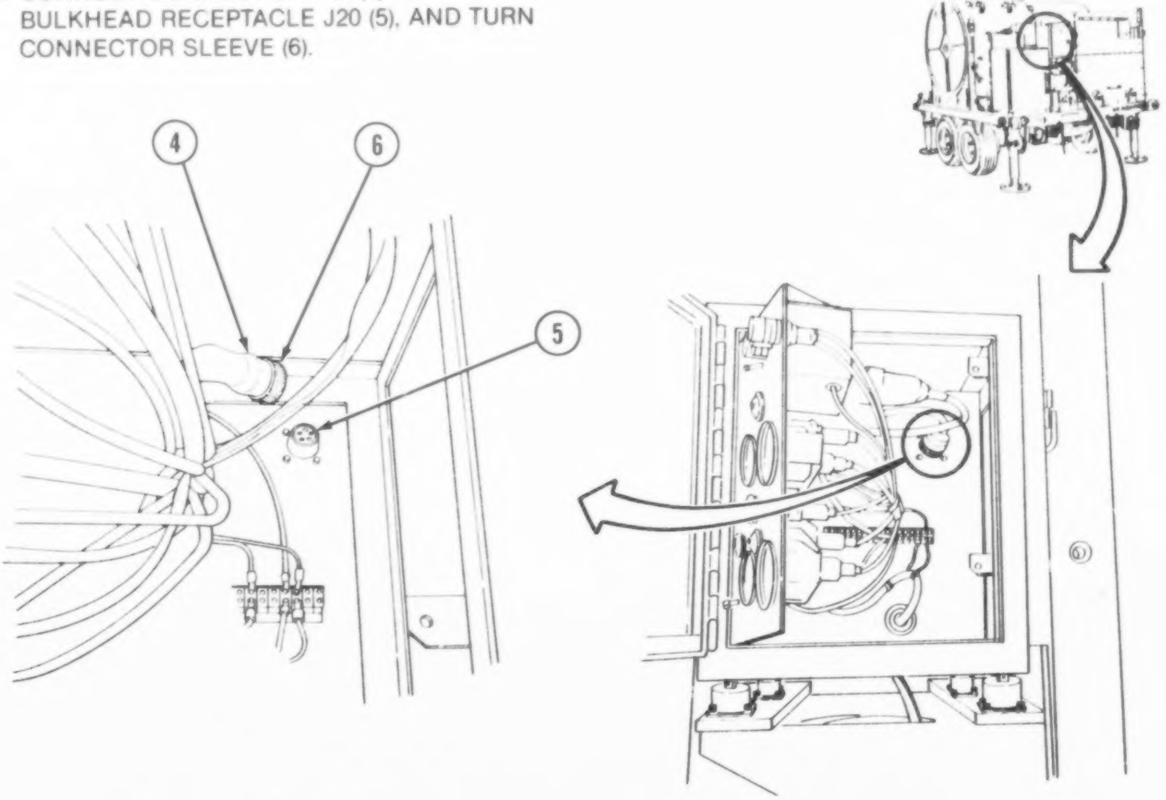
B. INSTALLATION — Continued

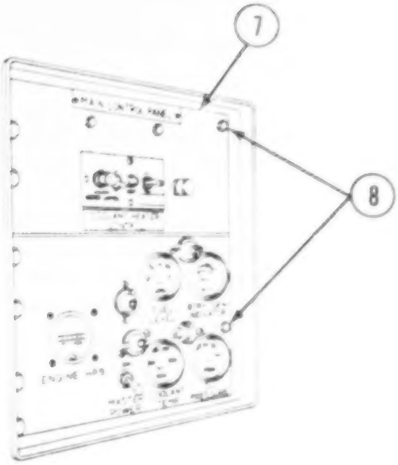
2. CONNECT CONNECTOR P29 (1) TO BULKHEAD RECEPTACLE J29 (2), AND TURN CONNECTOR SLEEVE (3).



3. CONNECT CONNECTOR P20 (4) TO BULKHEAD RECEPTACLE J20 (5), AND TURN CONNECTOR SLEEVE (6).



4. CLOSE AND SECURE MAIN CONTROL PANEL.
   - Close panel (7).
   - Install screws (8) on panel (7). Use 7/16 inch socket with 2 inch extension and ratchet handle.



NOTE

FOLLOW-ON MAINTENANCE:

Close Main Control Panel Door. (See TM 9-1095-205-10.)

Install Negative Lead On No. 2 Battery. (See TM 9-1095-205-20.)

Close Right Battery Box Cover. (See TM 9-1095-205-10.)

END OF TASK

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THE METRIC SYSTEM AND EQUIVALENTS

LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
1 Kilogram = 1000 Grams = 2.2 Lb
1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches
1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet
1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles

CUBIC MEASURE

1 Cu Centimeter = 1000 Cu Millimeters = 0.06 Cu Inches
1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet

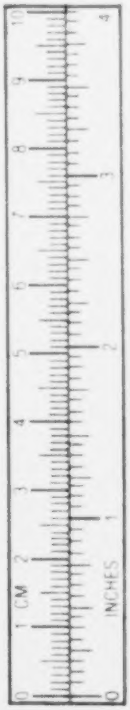
TEMPERATURE

5/9 (°F − 32) = °C
212° Farenheit is equivalent to 100° Celsius
90° Farenheit is equivalent to 32.2° Celsius
32° Farenheit is equivalent to 0° Celsius
9/5 (°C) + 32 = °F

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pounds per Square Inch	Kilopascals	6.895
Pounds per Square Inch	Kilograms per Square Centimeter	0.070
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Kilograms per Square Centimeter	Pounds per Square Inch	14.220
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621



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